



# 2010 Annual Report

Department of Surgery  
The Ohio State University Medical Center  
Columbus, Ohio



# Department of Surgery 2010 Annual Report

July 1, 2009 – June 30, 2010

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The Ohio State University Medical Center  
Columbus, Ohio

**Department of Surgery**  
395 West 12th Avenue  
Columbus, OH 43210-1267

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# Overview



**E. Christopher Ellison, M.D.**  
Chairman, Department of Surgery

**T**he missions of the Department of Surgery are consistent with those of The Ohio State University College of Medicine. The department's missions are the delivery of high-quality patient care, the contribution to innovations in medicine through basic and translational research and clinical outcomes studies, and the education of medical students and postgraduate trainees. This report summarizes the changes and accomplishments in the department from July 1, 2009 through June 30, 2010.

## Organization

The Department of Surgery comprises eight specialty divisions: Cardiothoracic Surgery; Critical Care, Trauma, and Burn; General and Gastrointestinal Surgery; Pediatric Surgery; Plastic Surgery; Surgical Oncology; Transplantation; and Vascular Diseases and Surgery. In addition, the Center for Minimally Invasive Surgery, a multidisciplinary organization within the department, is dedicated to developing and implementing minimally invasive technologies and procedures.

## Faculty

Recruitment efforts brought 17 new faculty members to the department this year. The Center for Minimally Invasive Surgery made two one-year clinical faculty appointments. The Division of Cardiothoracic Surgery, and the Division of Care, Trauma, and Burn, each added two new faculty members. The Division of General and Gastrointestinal Surgery added three faculty members and made one one-year clinical faculty appointment. The Division of Plastic Surgery added two faculty members and made one one-year clinical faculty appointment. The Division of Pediatric Surgery, the Division of Surgical Oncology, and the Division of Vascular Diseases and Surgery each appointed one new faculty member. A complete list of this year's faculty appointments begins on page 7 of this report.

**Clinical Care**

The Department of Surgery provides all aspects of major surgical care. This year, the department performed 18,742 surgical procedures and received 62,288 outpatient visits. Outpatient services are available at numerous sites, including:

- Aesthetic Surgery at Easton Town Center, 2 Easton Oval, Suite 545.
- The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, 300 West 10th Avenue.
- Cramblett Hall Medical Clinic, 456 West 10th Avenue.
- General Surgery at Knightsbridge, 4830 Knightsbridge Boulevard, Suite J.
- JamesCare Dublin, 4019 Dublin-Granville Road.
- The Martha Morehouse Medical Plaza, 2050 Kenny Road.
- Nationwide Children's Hospital, 700 Children's Drive.
- The Ohio State University Medical Center, 450 West 10th Avenue.
- The Ohio State University Medical Center Services, 770 Kinnear Road.
- Plastic Surgery at Knightsbridge, 4830 Knightsbridge Boulevard, Suite G.
- Plastic Surgery at the OSU Eye and Ear Institute, 915 Olentangy River Road, Suite 2100.
- The Richard M. Ross Heart Hospital, 452 West 10th Avenue.
- University Hospital East, 1492 East Broad Street.

**Research**

Research efforts continue to focus on three major areas: wound healing, vascular biology and transplantation, and tumor biology.

This year, new research funding awarded through The Ohio State University Research Foundation to principal investigators in the Department of Surgery totaled more than \$4.9 million. New federal funding was more than \$2.7 million, or 56 percent of total funding. New non-federal funding was more than \$2.1 million, or 44 percent of the total.

**Education**

Twenty-nine residents and fellows completed their training programs this year. Five went on to community practice, 16 to further training, and six to academic appointments. Two residents had not yet decided on a position at the time of graduation.

## Department Statistics

Full-Time Faculty	81
Residents and Fellows	111
ACGME-Accredited Surgical Residencies	3
ACGME-Approved Specialty Certification Programs	3
Approved Specialty Fellowships	7
OR Procedures	18,742
Outpatient Visits	62,288
Admissions	11,564
Patient Days	72,355
Average Length of Stay (Days)	6.26



## Department Administration

**E. Christopher Ellison, M.D.**

Chairman

**Robert L. Ruberg, M.D.**

Senior Vice Chairman for Administrative Affairs

**W. Scott Melvin, M.D.**

Vice Chairman for Academic Affairs

**Mark W. Arnold, M.D.**

Vice Chairman for Surgical Education

**Chandan K. Sen, Ph.D.**

Vice Chairman for Research

**Steven M. Steinberg, M.D.**

Vice Chairman for Clinical Affairs

**Jerome A. Johnson, Ph.D.**

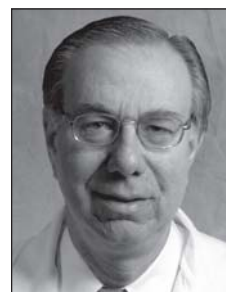
Administrator

**K. Christopher Kaiser**

Chief Operating Officer, OSU Surgery, LLC



*Ellison*



*Ruberg*



*Melvin*



*Arnold*



*Sen*



*Steinberg*



*Johnson*



*Kaiser*



## Administrative Staff

**Mark Bishop**

Systems Analyst, Surgery Information Systems

**Mark Dickman**

Director, Surgery Information Systems

**Elizabeth Hanson**

General Surgery Residency Manager

**Megan Guth**

Systems Analyst, Surgery Information Systems

**K. Christopher Kaiser**

Chief Operating Officer, OSU Surgery, LLC

**Dennis Mathias**

Publications Editor

**Anna Patterson**

Student Coordinator

**Heidi Pieper**

General Surgery Residency Coordinator

**Connie Roberson**

Fiscal Manager

**Donna Sampsill**

Administrative Assistant to the Chairman

**Roxanne Shull**

Research Coordinator

**Renee Troyer**

Executive Assistant to the Vice Dean

**Maxine Vargas**

Human Resources Administrator

## Division Chiefs

**Donna A. Caniano, M.D.**

Pediatric Surgery

**William B. Farrar, M.D.**

Surgical Oncology

**Mitchell L. Henry, M.D.**

Transplantation

**W. Scott Melvin, M.D.**

General and Gastrointestinal Surgery

**Michael J. Miller, M.D.**

Plastic Surgery

**Steven M. Steinberg, M.D.**

Critical Care, Trauma, and Burn

**Patrick Ross, Jr, M.D., Ph.D.**

Cardiothoracic Surgery

**Patrick S. Vaccaro, M.D.**

Vascular Diseases and Surgery

## Faculty Appointments

### Jennifer H. Aldrink, M.D.

Assistant Professor of Clinical Surgery, Division of Pediatric Surgery

**B.A.:** Wake Forest University, Winston-Salem, N.C., 1995

**M.D.:** East Carolina University School of Medicine, Greenville, N.C., 2000

**Specialty Training:** Residency in general surgery, Duke University Medical Center, Durham, N.C.; fellowship in pediatric surgery, Nationwide Children's Hospital, Columbus, Oh.

**Appointment:** 2009

**Research Interests:** Osteosarcoma pulmonary metastases, childhood malignancy and obesity, childhood melanoma, gastroschisis



*Aldrink*

### Paul R. Beery, M.D.

Assistant Professor of Clinical Surgery, Division of Critical Care, Trauma and Burn

**B.M.E.:** The Ohio State University, Columbus, Oh., 1992

**M.D.:** The Ohio State University, Columbus, Oh., 1999

**M.S.:** The Ohio State University, Columbus, Oh., 2005

**Specialty Training:** Residency in general surgery and fellowship in surgical critical care, The Ohio State University, Columbus, Oh.

**Appointment:** 2009

**Specialty Interests:** Thoracic and abdominal trauma

**Previous Appointment:** Trauma surgeon, Grant Hospital, Columbus, Oh.



*Beery*

### Renata B. Fabia, M.D., Ph.D.

Assistant Professor of Clinical Surgery, Division of Pediatric Surgery

**M.D.:** Medical University of Silesia, Katowice, Poland, 1985

**Ph.D.:** Lund University, Lund Sweden, 1993

**Specialty Training:** Research fellowship in transplantation, Baylor University, Dallas, Tx.; fellowship in pediatric surgery, Children's Hospital, Dallas, Tx.; residency in general surgery, The Ohio State University, Columbus, Oh.

**Appointment:** 2009

**Specialty Interests:** Pediatric burn surgery

**Previous Appointment:** Clinical assistant professor of surgery, The Ohio State University, Columbus, Oh.



*Fabia*

### Nabil A. Habash, M.D.

Clinical Assistant Professor of Surgery, Division of Plastic Surgery

**B.S.:** Florida State University, Tallahassee, Fl., 1997

**M.D.:** University of North Carolina, Chapel Hill, N.C., 2003

**Appointment:** 2009

**Specialty Interests:** Microsurgery, cancer reconstruction

**Previous Appointment:** Resident in general surgery, Mount Carmel Health System, Columbus, Oh.



*Habash*

**Clinton R. Hall, M.D.**

Clinical Assistant Professor of Surgery, Division of General and Gastrointestinal Surgery

**B.S.:** Cumberland College, Williamsburg, Ky., 2000

**M.D.:** University of South Florida College of Medicine, Tampa, Fl., 2004

**Appointment:** 2009

**Specialty Interests:** Laparoscopic, gastric bypass, hernia repair

**Research Interest:** Abdominal wall defects, hernia prevention

**Previous Appointment:** Residency in general surgery, The Ohio State University, Columbus, Oh.



Hall

**Brian Janz, M.D.**

Assistant Professor of Surgery-Clinical, Division of Plastic Surgery

**M.D.:** Medical College of Ohio, Toledo, Oh.

**Specialty Training:** Hand and Microsurgery fellowship, Curtis National Hand Center, Baltimore, Md., 2008

**Appointment:** 2009

**Specialty Interests:** Catastrophic injuries to upper and lower extremities, limb salvage, reconstructive microsurgery of the hand, arthritis surgery of the hand and wrist endoscopic carpal tunnel release

**Research Interests:** Upper extremity microsurgery and revascularization

**Previous Appointment:** Residency in plastic surgery, Baylor College of Medicine, Houston, Tx.



Janz

**Edmund S. Kassis, M.D.**

Assistant Professor of Surgery, Division of Cardiothoracic Surgery

**B.S.:** University of Pittsburgh, Pittsburgh, Pa., 1992

**M.D.:** University of Pittsburgh, Pittsburgh, Pa., 1999

**Specialty Training:** Residency in general surgery, Johns Hopkins University Hospital, Baltimore, Md.; thoracic surgery residency, University of Texas M.D. Anderson Cancer Center, Houston, Tx.

**Appointment:** 2009

**Specialty Interests:** Thoracic surgical oncology, esophageal cancer, minimally invasive thoracic surgery

**Research Interests:** Thoracic oncology, translational research in lung and esophageal cancer, molecular genetics, staging

**Previous Appointment:** Fellow in thoracic surgery, University of Texas, Houston, Tx.



Kassis

**Savita Khanna, Ph.D.**

Assistant Professor of Surgery, Division of General and Gastrointestinal Surgery

**B.S.:** Meerut University, Meerut, Uttar Pradesh, India, 1984

**M.S.:** Meerut University, Meerut, Uttar Pradesh, India, 1986

**M.Ph.:** Meerut University, Meerut, Uttar Pradesh, India, 1988

**Ph.D.:** University of Kuopio, Kuopio, Finland, 2000

**Specialty Training:** Research fellowship in molecular and cell biology, University of California, Berkeley, Ca.

**Appointment:** 2009

**Research Interests:** Tissue injury and repair, neurodegeneration and stroke

**Previous Appointment:** Research scientist, The Ohio State University Medical Center, Columbus, Oh.



Khanna

**Ergun Kocak, M.D.**

Assistant Professor of Surgery, Division of Plastic Surgery

**B.S.:** University of Michigan, Ann Arbor, Mi., 1996

**M.D.:** The Ohio State University, Columbus, Oh., 2000

**M.S.:** The Ohio State University, Columbus, Oh., 2005

**Specialty Training:** Residency in plastic surgery, The Ohio State University, Columbus, Oh.; fellowship in reconstructive microsurgery, University of Texas M.D. Anderson Cancer Center, Houston, Tx.

**Appointed:** 2009

**Specialty Interests:** Microsurgery and cancer reconstruction

**Research Interests:** Tumor immunotherapy, image guidance in surgery, objective measures of surgical training and skill

**Previous Appointment:** Fellow in reconstructive microsurgery, The Ohio State University Medical Center, Columbus, Oh.



Kocak

**Vanchad Memark, M.D.**

Clinical Assistant Professor of Surgery, Division of General and Gastrointestinal Surgery

**B.S.:** Loyola University, Chicago, Il., 1997

**M.D.:** Loyola University Stritch School of Medicine, Chicago, Il., 2009

**Specialty Training:** Residency in general surgery, University of Illinois Metropolitan Group Hospitals, Chicago, Il.

**Appointment:** 2009

**Specialty Interests:** Surgical endoscopy, minimally invasive surgery

**Research Interest:** Natural orifice transluminal endoscopy surgery (NOTES), minimally invasive surgery

**Previous Appointment:** Chief resident, University of Illinois Metropolitan Group Hospitals, Chicago, Il.



Memark

**Kyle Perry, M.D.**

Assistant Professor of Surgery, Division of General and Gastrointestinal Surgery

**B.A.:** University of Michigan, Ann Arbor, Mi., 1998

**M.D.:** Temple University, Philadelphia, Pa., 2002

**Specialty Training:** Residency in general surgery, Rush Presbyterian St. Luke's Medical Center, Chicago, Il.; fellowship in minimally invasive surgery, Oregon Health Science University, Portland, Or.

**Appointment:** 2009

**Specialty Interests:** Esophageal surgery including cancer

**Research Interest:** Minimally invasive surgery

**Previous Appointment:** Clinical Instructor of Surgery, Oregon Health Science University, College of Medicine, Department of Surgery. Portland, Oregon



*Perry*

**John Phay, M.D.**

Associate Professor of Surgery, Division of Surgical Oncology

**B.A.:** Williams College, Williamstown, Massachusetts, 1983

**M.D.:** University of California-San Francisco, San Francisco, Ca., 1988

**Specialty Training:** Howard Hughes Research Fellowship, University of California-San Francisco, San Francisco, Ca.; Residency in general surgery, Washington University School of Medicine, St. Louis, Mo.; surgical oncology training grant fellowship, Washington University School of Medicine, St. Louis, Mo.

**Appointment:** 2009

**Specialty Interests:** Endocrinology, oncology

**Research Interests:** Endocrinology

**Previous Appointment:** Assistant professor of surgery, Vanderbilt Medical Center, Nashville, Tn.



*Phay*

**Brian Porshinsky, M.D.**

Assistant Professor of Surgery, Division of Critical Care, Trauma, and Burn

**B.A.:** The Ohio State University, Columbus, Oh., 1991

**M.D.:** Medical College of Ohio, Toledo, Oh., 1999

**Specialty Training:** Residency in general surgery, Medical College of Ohio, Toledo, Oh.; fellowship in plastic surgery, University of Illinois, Chicago, Illinois; fellowship in burn surgery, New York-Presbyterian Hospital, New York, N.Y.

**Appointment:** 2009

**Specialty Interests:** Improving burn outcomes

**Research Interests:** Fluid resuscitation burn reconstruction

**Previous Appointment:** Fellow in burn and trauma, Ohio State University Medical Center, Columbus, Oh.



*Porshinsky*

**David Renton, M.D.**

Assistant Professor of Clinical Surgery, Division of General and Gastrointestinal Surgery

**B.S.:** Tulane University, New Orleans, La., 1994

**M.D.:** Louisiana State University, New Orleans La., 2001

**Specialty Training:** Master of Public Health, Tulane University School of Public Health, New Orleans, La., 1997

**Appointment:** 2009

**Specialty Interests:** Bariatrics, natural orifice transluminal endoscopy surgery (NOTES)

**Research Interests:** Advanced technology

**Previous Appointment:** Assistant professor, University of South Carolina School of Medicine, Columbia, S.C.



*Renton*

**Cameron Rink, Ph.D.**

Assistant Professor of Surgery, Division of Vascular Diseases and Surgery

**B.S.:** Hillsdale College, Hillsdale, Mi., 2000

**Ph.D.:** Ohio State University, Columbus, Oh., 2009

**Appointment:** 2009

**Research Interests:** Human nutrition, stroke, vascular disease

**Previous Appointment:** Post doctoral researcher, The Ohio State University Medical Center, Columbus, Oh.



*Rink*

**Eric Volckmann, M.D.**

Clinical Assistant Professor of Surgery, Center for Minimally Invasive Surgery

**B.S.:** Indiana University, Bloomington, In., 1999

**M.D.:** Indiana University, Indianapolis, In., 2003

**Specialty Training:** Residency in general surgery and minimally invasive research fellowship, Northwestern University, Chicago, Il.

**Appointment:** 2008

**Specialty Interests:** Minimally invasive surgery

**Research Interests:** Minimally invasive surgery, duodenal ulcer disease, colorectal cancer screening

**Previous Appointment:** Resident in general surgery, Northwestern University, Chicago, Il.



*Volckmann*

**Wing Yeen, M.D.**

Assistant Professor of Surgery, Division of Cardiothoracic Surgery

**B.A.:** Washington and Jefferson College, Washington, Pa., 1993

**M.D.:** University of Kentucky, Lexington, Ky., 1997

**Specialty Training:** Fellowship in cardiothoracic surgery, The Ohio State University Medical Center, Columbus, Oh.

**Appointment:** 2008

**Specialty Interests:** Minimally invasive robotic cardiac and thoracic surgery

**Previous Appointment:** Fellow in cardiothoracic surgery, The Ohio State University Medical Center, Columbus, Oh.



*Yeen*

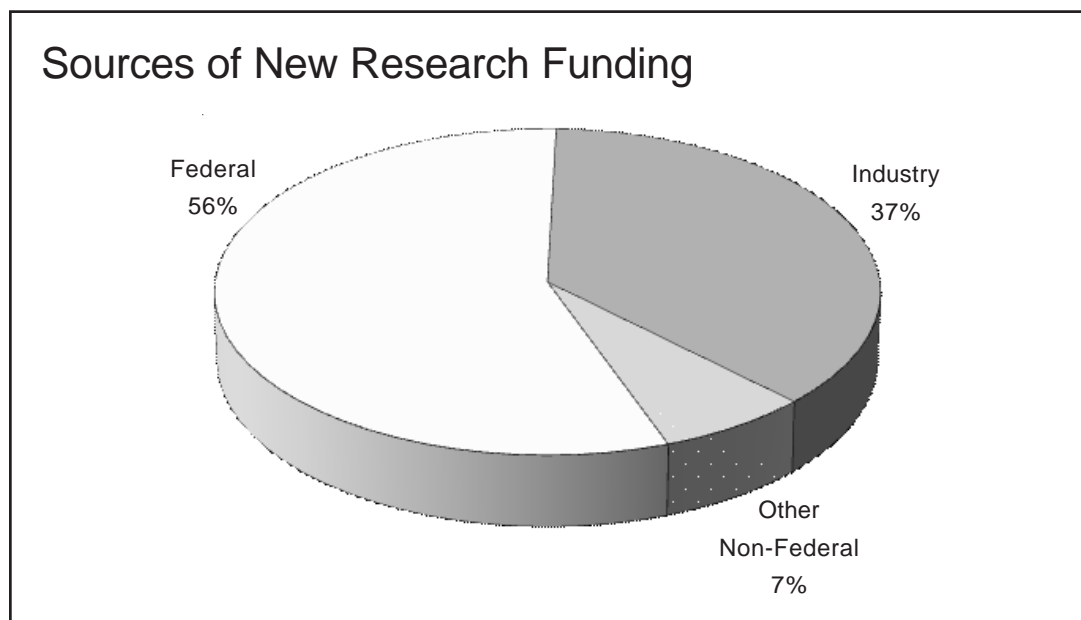


## New Research Funding

**D**uring fiscal year 2009–2010, new research funding awarded through The Ohio State University Research Foundation to principal investigators in the Department of Surgery totaled more than \$4.9 million.

New federal funding was more than \$2.7 million, or 56 percent of total funding. New non-federal funding was more than \$2.1 million, or 44 percent of the total.

Sources	Amounts
Federal	\$2,791,071
Industry	\$1,862,960
Other Non-Federal	\$331,075
<b>GRAND TOTAL</b>	<b>\$4,985,106</b>



## Graduate Programs in Surgery

**T**he surgical residency programs at The Ohio State University Medical Center share a common goal: to provide an environment conducive to learning, in which physicians prepare to function as well-qualified, independent specialists in surgery.

This year, 111 residents and fellows participated in the department's 13 residency programs, which consist of three residencies accredited by the Accreditation Council for Graduate Medical Education (ACGME), three ACGME-approved specialty certification programs, and seven approved specialty fellowships. These programs provide training in cardiothoracic surgery, general surgery, minimally invasive surgery, advanced endoscopic surgery, pediatric surgery, plastic surgery, surgical critical care, surgical oncology, transplantation, and vascular surgery.

Surgical residents at Ohio State are dedicated to learning and teaching advanced surgical techniques and procedures, and assume a major responsibility for the clinical education of medical students. The integrated and affiliated institutions of the program provide clinical resources for graduate and undergraduate surgical education. The Ohio State University Medical Center and the Department of Surgery host a variety of forums and seminars, where clinicians and researchers share their expertise and advance the profession.

Research is a vital component of the Department of Surgery's mission and an integral element of its training programs. Research efforts are focused on key areas of interest that promise to yield significant results in the understanding of disease and in the improvement of clinical care. The Department of Surgery's Office of Surgical Research promotes interdisciplinary research activity and the integration of clinical and basic science research. The department's stature and the reputation of its researchers and clinicians enable it to garner significant funding from private industry and from federal sources, such as the National Institutes of Health.

## Residency and Fellowship Program Graduates

**T**wenty-nine residents and fellows completed their training programs this year. Five went on to community practice, 16 to further training, and six to academic appointments. Two residents had not yet decided on a position at the time of graduation.

**Sherif R. Z. Abdel-Misih, M.D.**

Dr. Abdel-Misih completed the fellowship in surgical oncology and began an appointment as assistant professor of clinical surgery in Ohio State's Division of Surgical Oncology

**Siddharth K. Bhende, M.D.**

Dr. Bhende completed the fellowship in vascular surgery and began private practice in Mesa, AZ.

**Mutaza Y. Dawood, M.D.**

Dr. Dawood completed the fellowship in cardiothoracic surgery and began a fellowship in advanced valve surgery at the University of Maryland Medical Center, in Baltimore, MD.

**Kevin O. Delaney, M.D.**

Dr. Delaney completed the residency in plastic surgery and began an appointment as assistant professor at the Medical University of South Carolina, in Charleston, SC.

**Daniel S. Eiferman, M.D.**

Dr. Eiferman completed the fellowship in surgical critical care and began an appointment as assistant professor of surgery in Ohio State's Division of Critical Care, Trauma, and Burn.

**David C. Evans, M.D.**

Dr. Evans completed the fellowship in surgical critical care and is continuing the residency in general surgery at Ohio State.

**Bryan T. Fisher, M.D.**

Dr. Fisher completed the residency in general surgery and began a fellowship in peripheral vascular surgery at Vanderbilt University, in Nashville, TN.

**Mason G. Fisher, M.D., M.S.**

Dr. Fisher completed the residency in general surgery and began a fellowship in surgical critical care at the Medical College of Wisconsin, in Milwaukee, WI.

**Stacey H. Francis, M.D.**

Dr. Francis completed the residency in plastic surgery and began a fellowship in craniofacial and pediatric plastic surgery at Children's Hospital, in Los Angeles, CA.

**Brian M. Goodman, M.D.**

Dr. Goodman completed the fellowship in cardiothoracic surgery and began a fellowship in thoracic oncology at Brigham and Women's Hospital, in Boston, MA.

**K. Roxanne Grawe, M.D.**

Dr. Grawe completed the residency in plastic surgery and began private practice in Columbus, OH.

**Yusuf Gunay, M.D.**

Dr. Gunay completed the fellowship in transplantation and was undecided at the time of graduation.

**Nabil A. Habash, M.D.**

Dr. Habash completed the fellowship in reconstructive microsurgery and began private practice in Austin, TX.

**Clinton R. Hall, M.D.**

Dr. Hall completed the fellowship in minimally invasive surgery and began private practice in Melbourne Beach, FL.

**Ioannis S. Hatzaras, M.D., M.P.H.**

Dr. Hatzaras completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

**Lisa M. Haubert, M.D., M.S.**

Dr. Haubert completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

**James M. Howard, M.D.**

Dr. Howard completed the fellowship in surgical critical care and began a fellowship in burn surgery at Ohio State.

**Iyore A.-O. James, M.D., M.A.L.D., M.S.**

Dr. James completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

**Natalie B. Jones, M.D., M.S.**

Dr. Jones completed the residency in general surgery and began a fellowship in surgical oncology at Ohio State.

**Vanchad C. Memark, M.D.**

Dr. Memark completed the fellowship in advanced therapeutic endoscopy and gastrointestinal surgery and began private practice in Atlanta, GA.

**Benjamin N. Morris, M.D.**

Dr. Morris completed the fellowship in surgical critical care and began an appointment as assistant professor of surgery at Wake Forest University, in Winston-Salem, NC.

**Peter N. Nau, M.D., M.S.**

Dr. Nau completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

**Dorothy V. Rocourt, M.D.**

Dr. Rocourt completed the fellowship in pediatric surgery and began an appointment as assistant professor of clinical surgery at Pennsylvania State University, in Hershey, PA.

**Srinivas S. Samavedi, M.D., M.S.**

Dr. Samavedi completed the fellowship in transplantation and began an appointment as assistant professor of urology at Nizams Institute of Medical Science, Hyderabad, India

**Irina Shakhnovich, M.D., M.S.**

Dr. Shakhnovich completed the residency in general surgery and began a fellowship in vascular surgery at the Medical College of Wisconsin, in Milwaukee, WI.

**Vance L. Smith, M.D., M.S., M.B.A.**

Dr. Smith completed the residency in general surgery and began a fellowship in surgical critical care/trauma at Stanford University, Stanford, CA.

**Alicia C. Thomas, M.D., M.S.**

Dr. Thomas completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

**Eric T. Volckmann, M.D.**

Dr. Volckmann completed the fellowship in minimally invasive surgery and was undecided at the time of graduation.

**Wing C. Yeen, M.B.B.S.**

Dr. Yeen began an appointment as clinical assistant professor of surgery in Ohio State's Division of Cardiac Surgery. He will complete the fellowship in mechanical and circulatory support on September 30, 2010.

## Annual Surgery Awards Banquet

Outstanding teachers and the 2009–2010 graduates of the Department of Surgery's training programs were honored June 12 at the department's annual awards banquet.

### Special Awards

**Dr. Natalie B. Jones**, chief resident in general surgery, was named Resident of the Year by the Surgery faculty.

**Dr. Ellen A. Carraro** was named Intern of the Year by the Surgery faculty.

**Karen S. Copeland, RN**, Division of General and Gastrointestinal Surgery, was named Surgical Nurse of the Year by the chief residents in general surgery.

**Dr. Mary Dillhoff** was named Pediatric Resident of the Year of the Year by the Pediatric Surgery faculty.

### Teaching Awards

**Dr. Sherif Abdel-Misih**, fellow in surgical oncology, was selected by the general surgery residents to receive a Fellow Teaching Award.

**Dr. Siddharth K. Bhende**, fellow in vascular surgery, was selected by the general surgery residents to receive a Fellow Teaching Award.

**Dr. Natalie B. Jones**, chief resident in general surgery, was chosen by the medical students to receive a Resident Teaching Award.

**Dr. Carl R. Schmidt**, assistant professor of clinical surgery in the Division of Surgical Oncology, was selected by the medical students to receive the Michael J. Walker, M.D., Faculty Teaching Award.

**Dr. Andrei V. Manilchuk** assistant professor of clinical surgery in the Division of General and Gastrointestinal Surgery, was chosen by Department residents and fellows to receive a Faculty Teaching Award.

**Raymond M. Manley**, director of operations, OSU Surgery, LLC, was selected by the chief residents in general surgery to receive the John L. Robinson Award, for outstanding teaching by faculty or staff from another department.

### Research Awards

Five trainees received awards for outstanding research presentations made at the Department of Surgery's 15th Annual Research Conference, held May 28 at The Ohio State University Medical Center.

**Dr. Kristan D. Guenterberg**, a general surgery resident, received the first-place award for the best research presentation by a resident. His presentation was titled "Natural Killer Cells are Activated by IL-21 and Induce ADCC and IFN-Gamma Release in Pancreatic Cancer Cell Lines."

**Dr. Thomas Pham**, a general surgery resident, received the second-place award for a research presentation by a resident. His presentation was titled “IL-4 Dependent, IgG1-Dominant Post-Transplant Alloantibody Production is Regulated by CD8+ T Cells.”

**Alyssa Charrier**, a Ph.D. student in the Department of Surgery, received the award for the best research presentation by a graduate research associate. Her presentation was titled “Connective Tissue Growth Factor Production by Activated Pancreatic Stellate Cells in Mouse Alcoholic Chronic Pancreatitis.”

**Dr. Mary Dillhoff**, a general surgery resident, received the award for the best research presentation as voted by the interns. Her presentation was titled “Inactivation of p16 in Patients with Esophageal Adenocarcinoma Portends Poor Prognosis in Esophageal Adenocarcinoma.”

**Dr. Peter Nau**, a general surgery resident, received the award for the best poster presentation. His poster was titled “Novel Reconstruction Techniques of the Extrahepatic Biliary Trees with a Biosynthetic Absorbable Graft.”

#### **Medical Student Awards**

Department of Surgery faculty honored five senior medical students for exceptional performance and dedication to surgery.

**Zachary W. Bryan** received the Ferguson Award in Surgery.

**Lindsay E. Williams** received the Carey Award in Surgery.

**Aaron P. Wilcox** received the Barton Williams Graduation Award, a merit scholarship for a graduating fourth-year student in the College of Medicine who intends to complete a surgical residency.

**Justin T. Huntington** received the Zollinger Award in Surgery.

**Rachel C. Sullivan** received the Jonasson Award in Surgery.



## Recognitions

**Michael D. Adolph, MD, FACS**, Division of Surgical Oncology, presented work accomplished with Division of Thoracic Surgery surgeons **Patrick Ross, MD, PhD, FACS** and **Susan Moffatt-Bruce MD, PhD, FACS** and their clinical services teams at the American Society for Clinical Oncology Annual 2009 National Meeting in Orlando Florida. “Evaluating cancer patient satisfaction before and after daily multidisciplinary care for thoracic surgery inpatients” demonstrated enhanced pain relief satisfaction and quality, and reduced costs, for James inpatients with lung cancer using an innovative process improvement approach. [*Journal of Clinical Oncology*, 27 (18S), 9605] The project also won the “**Greatest Quality and Patient Satisfaction Improvement**” Award at the James Quality, Satisfaction, and Patient Safety Fair, December 3, 2009; the award was one of only 6 given out of about 100 projects and 60 posters at the James.

**Dr. Paul R. Beery, II**, was selected to receive the 2009-2010 Department of Emergency Medicine Outstanding Contribution Award. The award recognizes an attending or resident from another department for their commitment to teamwork, communication, and outstanding clinical judgement. The award is selected by the Department of Emergency Medicine housestaff.

**Dr. Paul R. Beery, II**, assistant professor of clinical surgery, Division of Critical Care, Trauma, and Burn was selected for the University Hospital Physician of the Month Award - March 2010.

**David R. Brigstock, PhD**, Professor of Surgery in the OSU Division of Pediatric Surgery has been elected as a member of the Society of University Surgeons (SUS).

**Dr. Allen F. Browne**, associate professor of clinical surgery in the Division of Pediatric Surgery, served on a mission trip to Children’s Hospital #1, in Ho Chi Minh City, Vietnam, April 8–19, with the International Pediatric Specialists Alliance for Children. Also, Dr. Browne has been appointed chairman of the Childhood Obesity Committee of the American Pediatric Surgical Association, for 2009–2010.

**Dr. Ginny L. Bumgardner**, professor of surgery, Division of Transplantation has been invited to serve as chair of the American Society of Transplantation (AST) Workforce Analysis Task Force. This newly established AST task force will focus on identifying and addressing potential workforce shortages in the field of transplantation. Task force members actively take part in discussion and participate in scheduled conference calls.

**Dr. Donna A. Caniano**, the H. William Clatworthy professor of surgery and chief of the Division of Pediatric Surgery, **Dr. Marc P. Michalsky**, assistant professor of clinical surgery in the Division of Pediatric Surgery, and **Dr. Bradley J. Needleman**, associate professor of surgery and director of bariatric surgery in the Division of General and Gastrointestinal Surgery, served as speakers at a symposium titled “Chronic Diseases in Childhood Obesity: Risks and Benefits of Early Intervention,” April 2–3, 2009, in Columbus, Ohio.

**Dr. William E. Carson III**, has been named to the Board of Directors of the National Comprehensive Cancer Network (NCCN). Dr. Carson is a surgical oncologist who serves as Associate Director for Clinical Research at The Ohio State University Comprehensive Cancer Center (OSUCCC) and co-leads the Cancer Center's Innate Immunity Research Program.

**Dr. Juan A. Crestanello**, assistant professor of surgery, Division of Cardiothoracic Surgery has accepted an invitation to join the editorial board of the *Journal of Surgical Research*. As a member of the board Dr. Crestanello will serve a 3-year term with an option for a second term and will review manuscripts in his field of expertise. Dr. Crestanello previously served the journal as an ad hoc reviewer.

**Dr. Juan A. Crestanello**, of the Division of Cardiothoracic Surgery, was promoted October 1, 2009 to associate professor of surgery.

**Dr. Elmahdi A. Elkhammas**, professor of clinical surgery, chief, liver transplantation, Division of Transplantation, has been appointed examiner for the Libyan Board of Medical Specialization, Surgical Specialty, Tripoli, Libya, July 25-28, 2009.

**Dr. Elmahdi A. Elkhammas**, professor of clinical surgery, chief, liver transplantation, Division of Transplantation, has been selected as chairman for the Libyan Health Reforms Advisory Committee, Secretary of Health and Environment, Tripoli, Libya, November 23, 2009. Dr. Elkhammas has also been selected as chairman for the Ibnosina Annual Seminar of Open Access Organizing Committee, Tripoli, Libya, November 29, 2009.

**Dr. E. Christopher Ellison**, the Robert M. Zollinger professor and chairman of surgery, associate vice president for health sciences, and vice dean of clinical affairs, has been elected secretary of the American Surgical Association for 2009 through 2014.

**Dr. Ronald M. Ferguson**, chairman of the Department of Surgery from 1993 to 1999 and chief of the Division of Transplantation from 1985 to 2005, was appointed emeritus professor of surgery April 1, 2009.

**Dr. Michael S. Firstenberg**, assistant professor of surgery, Division of Cardiothoracic Surgery was highlighted in the OSU Medical Center publication *Medical Staff News* for his high patient satisfaction scores. Dr. Firstenberg attributed his high ratings to directing the patient's care from pre-surgery exam throughout hospitalization and follow-up, and making himself available to address patient's questions and concerns. He also stressed the importance of caring not only for the patient, but for the patient's family too. Dr. Firstenberg focuses on adult-acquired and congenital cardiac surgery, cardiothoracic care, mechanical assist devices and heart failure.

**Dr. Gayle M. Gordillo**, of the Division of Plastic Surgery, was promoted October 1 to associate professor of surgery.

**Dr. Gayle M. Gordillo**, associate professor of surgery, Division of Plastic Surgery, has been accepted into the Executive Leadership in Academic Medicine (ELAM) fellowship program of the Institute for Women's Health and Leadership at Drexel University College of Medicine, Philadelphia, Pennsylvania. The ELAM program is an intensive one-year program of leadership training with extensive coaching, networking and mentoring opportunities aimed at expanding the national pool of qualified women candidates for leadership in academic medicine, dentistry and public health.

More than 300 emergency medical technicians, nurses, physicians, and social workers attended the 10th Annual Ohio Pediatric Trauma Symposium April 17, 2009, at the Hyatt Regency Columbus. Sponsored by the trauma program at Nationwide Children's Hospital, which is under the direction of **Dr. Jonathan E. Groner**, the symposium featured keynote speaker Dr. Barbara Barlow, professor of epidemiology in surgery at Columbia University and founder and director of the Injury Free Coalition for Kids. Dr. Groner is associate professor of clinical surgery in the Division of Pediatric Surgery.

**Dr. Alan E. Harzman**, assistant professor of surgery, Division of General and Gastrointestinal Surgery has been accepted into the Association for Surgical Education's (ASE) Surgical Education Research Fellowship program (SERF).

**Dr. Jeffrey W. Hazey**, of the Division of General and Gastrointestinal Surgery, was promoted October 1, 2009 to associate professor of surgery.

**Dr. Mitchell L. Henry** has been selected as president-elect of the American Society of Transplant Surgeons (ASTS) at the 2010 American Transplant Congress held in May. He will take office in May, 2011. Dr. Henry, professor of surgery, is Ohio State's chief of the Division of Transplantation and deputy director of the Comprehensive Transplant Center. In addition, Henry serves as president of the Vascular Access Society of the Americas.

**K. Christopher Kaiser**, Chief Operating Officer of OSU Surgery, LLC was recently named a trustee of Otterbein College located in Westerville, Ohio. Chris is a 1977 graduate of the College founded in 1847 which serves 3,000 students. Upon graduation Chris joined the accounting and consulting firm now known as Deloitte where he worked for 15 years attaining the position of Senior Manager. In 1992, Chris joined the Department of Surgery Corporation, P.C. (the predecessor company to OSU Surgery, LLC).

The appointment of **Dr. Edmund S. Kassis**, assistant professor of surgery in the Division of Cardiothoracic Surgery, was noted September 18, 2009, by Business First.

**Dr. Denis R. King** was presented with The Ohio State University College of Medicine's Lifetime Achievement Award. Dr. King is co-medical director of Nutrition Support Services at Nationwide Children's Hospital and a clinical associate professor of surgery in The Ohio State University College of Medicine.

**Dr. Denis R. King** was selected as recipient of the Department of Surgery's Outstanding Educator Award for 2010. The award was presented by **Dr. E. Christopher Ellison** at the June Surgery Awards Banquet.

**Dr. Richard E. Kirschner, MD**, has joined Nationwide Children's Hospital as chief of Plastic Surgery and director of the Cleft Lip and Palate-Craniofacial Institute.

**Dr. W. Scott Melvin**, professor of surgery, chief, Division of General and Gastrointestinal Surgery, and director, Center for Minimally Invasive Surgery as the 2010 recipient of The Ohio State University College of Medicine's Distinguished Educator Award. Dr. Catherine Lucey, vice dean, Medicine Administration and associate vice president, Health Sciences Administration, OSU College of Medicine presented Dr. Melvin with his award at the 15th Annual Department of Surgery Research Conference, held May 28, 2010

**Dr. Marc P. Michalsky**, of the Division of Pediatric Surgery, was promoted October 1, 2009 to associate professor of clinical surgery.

The OSU Division of Plastic surgery, represented by **Dr. Michael Miller**, **Dr. Pankaj Tiwari**, **Dr. James Boehmler** and several residents from OSU Plastic Surgery, received two prestigious awards at the American Society of Reconstructive Microsurgery Meeting, April 2010. The awards were for the "Best Case of the Year" and "Best Save of the Year."

**Dr. Sidney F. Miller**, professor of surgery in the Division of Critical Care, Trauma, and Burn and director of the Burn Center at The Ohio State University Medical Center, was appointed as a member of the external review panel for the U.S. Army Combat Casualty Care, Combat Critical Care Engineering, Advanced Capabilities for Emergency Medical Monitoring, Automated Critical Care Life Support, and Medical Knowledge Engineering Research programs. The review panel was developed by the American Institute of Biological Sciences to review military projects proposed for possible funding by the Department of Defense or other external agencies.

**Dr. Sidney F. Miller**, professor of surgery, director, Burn Center, Division of Critical Care, Trauma, and Burn assumed the Presidency of the American Burn Association.

**Dr. Susan D. Moffatt-Bruce**, assistant professor of surgery, Division of Cardiothoracic Surgery, was appointed to the newly created position of Chief Quality and Patient Safety Officer of the Ohio State University Medical Center Health System.

**Dr. Susan D. Moffatt-Bruce** was selected for membership in the Society of University Surgeons (SUS).

**Dr. Vimal K. Narula**, clinical assistant professor of surgery in the Division of General and Gastrointestinal Surgery, was director of a course on laparoscopic hernia repair for advanced general surgery residents, held Aug. 15 and sponsored by the Center for Minimally Invasive Surgery. The program, which included didactic and laboratory sessions, was attended by 21 residents from throughout the state and the region. Faculty for the course included **Dr. Jeffrey W. Hazey**, assistant professor of surgery; **Dr. Dean J. Mikami**, assistant professor of surgery; **Dr. Kyle A. Perry**, assistant professor of surgery; **Dr. David B. Renton**, assistant professor of clinical surgery; and **Dr. Eric T. Volckmann**, clinical assistant professor of surgery.

**Dr. Bradley J. Needleman**, of the Division of General and Gastrointestinal Surgery, was promoted October 1, 2009 to associate professor of clinical surgery.

**Dr. Benedict C. Nwomeh**, of the Division of Pediatric Surgery, was promoted October 1, 2009 to associate professor of clinical surgery. Also, Dr. Nwomeh was course director for “Fundamentals of Research and Career Development,” July 13–14, 2009, and “Minimally Invasive Surgery Workshop,” July 15, 2009, for the Association for Academic Surgery, in Abuja, Nigeria.

**Dr. Benedict C. Nwomeh**, assistant professor of clinical surgery, Division of Pediatric Surgery completed the MPH Program for Experienced Professionals (PEP) offered by the OSU College of Public Health and has received a master of public health degree.

**Dr. Sampath Parthasarathy**, Karl P. Klassen Professor of Surgery, director of research, Division of Cardiothoracic Surgery, professor of internal medicine, has received the Excellence in Mentorship award by the Davis Heart & Lung Research Institute, awarded for student and faculty level mentoring excellence in 2009.

**Dr. Amer Rajab**, of the Division of Transplantation, was promoted October 1, 2009 to associate professor of surgery.

**Dr. Patrick Ross, Jr.**, professor of clinical surgery, Division of Cardiothoracic Surgery, served on the Oncodiagnosis Panel: Detection and Treatment of Early Lung Cancer—Current Controversies and Future Directions at the Radiology Society of North America (RSNA) national meetings, November 29 2009. The panel reviewed the current state of lung cancer screening, indications for and outcomes of minimally invasive pulmonary resection, different radiotherapy options for early-stage non-small cell lung cancer, the technical aspects of different radiotherapy options and the pros and cons of those options.

**Sashwati Roy, Ph.D.**, of the Division of General and Gastrointestinal Surgery, was promoted October 1, 2009 to associate professor of surgery.

On Sept. 4–6, 2009, the Division of Plastic Surgery held the inaugural Ruberg Symposium, a plastic surgery conference honoring the career of **Dr. Robert L. Ruberg**, professor of surgery in the Division of Plastic Surgery. Dr. Ruberg joined the division in 1975 and served as its chief from July 1985 through Jan. 2007.

**Dr. Bhagwan Satiani**, professor of clinical surgery, Division of Vascular Diseases and Surgery was selected as a member of the editorial board of the *International Journal of Vascular Medicine*. The journal is a peer-reviewed, open access journal that publishes original research articles, review articles, case reports, and clinical studies in all areas of vascular medicine. December 2009.

**Dr. Bhagwan Satiani** was also selected as co-editor, *Journal of Vascular Surgery*, Volume 51, Issue 4, Special Supplement (April 2010) Diversity in Vascular Surgery: Adapting to America’s New Face. Edited by Frederick P. Beavers MD and Bhagwan Satiani MD, MBA.

**Dr. Bhagwan Satiani**, professor of surgery, Division of Vascular Surgery was elected President-Elect of the South Asian American Vascular Society (SAAVS), Boston, MA, June 9th, 2010.

**Dr. Bhagwan Satiani**, professor of clinical surgery, Division of Vascular Diseases and Surgery, was elected as secretary ASHA Ray of Hope, an organization to combat domestic violence in South Asians.

**Chandan K. Sen, Ph.D.**, professor of surgery in the Division of General and Gastrointestinal Surgery, vice chairman for research in the Department of Surgery, and associate dean for translational and applied research in the College of Medicine, had a patent granted in January by the United Kingdom, for his invention called “Methods and Compositions for Wound Healing.” Also, Dr. Sen co-organized a conference, held March 9–13, 2009, in conjunction with the Mathematical Biosciences Institute at The Ohio State University, which for the first time brought together clinicians, biologists, and mathematicians to focus on wound healing. In April, Dr. Sen was named to the national Surgery, Anesthesiology and Trauma Study Section, Center for Scientific Review, for July 1, 2009 through June 30, 2013.

**Dr. Stanislaw P. Stawicki**, assistant professor of surgery, Division of Critical Care, Trauma, and Burn became the Section Editor, Critical Sonology Science, *Journal of Emergencies, Trauma, and Shock* (PubMed-listed International Journal).

**Dr. Steven M. Steinberg**, professor of surgery; chief, Division of Critical Care, Trauma, and Burn; vice chairman for Clinical Affairs, was selected as the recipient of the American College of Surgeons/American Surgical Association Health Policy Scholarship for the year 2010. As part of the scholarship Dr. Steinberg has been invited to attend the course “Leadership Program in Health Policy and Management,” offered at Brandeis University, June 13-19, 2010.

**Dr. Steven M. Steinberg**, professor of surgery; chief, Division of Critical Care, Trauma, and Burn; and vice chairman for Clinical Affairs, Department of Surgery was selected as an American College of Surgeons (ACS)/American Surgical Association Health Policy Scholar for 2010.

**Dr. Benjamin C. Sun**, associate professor of surgery and chief of the Division of Cardiothoracic Surgery, is co-investigator for a study titled “Electrical and mechanical behavior of live human myocardium in health and disease,” which has received a grant of \$1 million for two years, from the National Heart, Lung, and Blood Institute.

**Dr. Anne Taylor**, associate professor of surgery, Division of Plastic Surgery was nominated to American Society of Plastic Surgeons (ASPS) Board of Directors, term beginning October 2010.

**Dr. Steven Teich**, of the Division of Pediatric Surgery, was promoted October 1, 2009 to clinical associate professor of surgery.

**Dr. Patrick S. Vaccaro**, professor of clinical surgery and chief of the Division of Vascular Diseases and Surgery, began an appointment July 1, 2009, as chief of staff-elect of The Ohio State University Medical Center.



## In the news

**Dr. Doreen M. Agnese**, assistant professor of surgery and internal medicine, Division of Surgical Oncology was interviewed on WOSU radio March 1, 2010 and Fox28 TV *Good Day Columbus* on March 18, 2010 regarding her research of the increasing number of women diagnosed with breast cancer choosing preventive mastectomies. Dr. Agnese reported that the number of women choosing to sacrifice a healthy breast has doubled in the past decade. Women who made this choice were younger, more highly educated, and more likely to have a family history of cancer. Dr. Agnese's research was also mentioned on the WBNS 10TV *HealthSource* report on March 1, 2010.

**Dr. Kenneth A. Andreoni**, associate professor of surgery and director of liver transplantation in the Division of Transplantation, was quoted August 25, 2009, by the *San Diego Union-Tribune*, in a story about paired-donor kidney transplants.

**Dr. Mark W. Arnold**, professor of clinical surgery in the Division of General and Gastrointestinal Surgery and vice chairman for surgical education in the Department of Surgery, was mentioned in the July 2009 issue of *Columbus C.E.O.*, as a recipient of the Distinguished Educator Award from The Ohio State University College of Medicine.

**Dr. Gail E. Besner**, professor of surgery, Division of Pediatric Surgery presented "Heparin-Binding EGF-like Growth Factor Increases Intestinal Microvascular Blood Flow in Necrotizing Enterocolitis." on *YouTube*, May, 2009. *Video abstract by invitation from on-line editor of Gastroenterology.*

**Dr. Ginny L. Bumgardner**, professor of surgery in the Division of Transplantation and associate dean for research education in The Ohio State University College of Medicine, was quoted August 10, 2009, by the *Florida Times-Union*, of Jacksonville, Florida, in a story about her study finding that only one in 10 abdominal transplant surgeons in the United States is female.

**Dr. Donna A. Caniano**, the H. William Clatworthy, Jr. professor of surgery, chief of the Division of Pediatric Surgery at The Ohio State University Medical Center, and surgeon-in-chief at Nationwide Children's Hospital, on September 21, received the 2009 Jimmy Crum Labor of Love Award, an annual honor given by International Monetary Systems, as part of the company's charity golf classic. The award recognizes the recipient's charitable efforts and philanthropic spirit to benefit those in need. The annual Labor of Love Golf Classic has donated nearly \$1 million dollars to Ohio Special Olympics, Easter Seals, and Recreation Unlimited. Previous recipients have included Dr. E. Gordon Gee, Archie Griffin, Barbara Nicklaus, Dave Thomas, and other Columbus leaders.

The Ohio State University Medical Center and Lifeline of Ohio organ procurement teamed with NBC4 TV to produce a one-hour show about organ donation and transplantation, which aired May 26, 2010 at 7 p.m. Hosted by news veteran Gail Hogan, the program features interviews from individuals that educate and inspire, including the OSU Comprehensive Transplant Center's staff Dr. Todd Pesavento, **Dr. Amer Rajab**, **Dr. Benjamin Sun**, Dr. Adam Hanje and Laura Murdock, as well as



personal stories from those who have been touched by donation and transplantation. In addition, NBC4 held a “Call 4” phone bank from 5-8 p.m., with a panel of experts from the Comprehensive Transplant Center and Lifeline of Ohio.

**Dr. Richard E. Schlanger**, assistant professor of clinical surgery in the Division of General and Gastrointestinal Surgery and director of the Center for Advanced Wound Management at University Hospital East, was mentioned July 23, 2009 by MedCity News, in a story about an Ohio State University nurse who is working to develop a wound-care device. On October 16, 2009, Dr. Schlanger was mentioned by Business First, in a story about the device and the technology licensing and commercialization office at Ohio State.

**Dr. Wiley W. “Chip” Souba, Jr.**, professor of surgery in the Division of Surgical Oncology, dean of The Ohio State University College of Medicine, and vice president for health sciences at The Ohio State University Medical Center, was interviewed for a profile of Dr. Steven G. Gabbe, CEO of Ohio State’s Medical Center, in the September 2009 issue of *Columbus C.E.O.*

**Dr. Steven Steinberg**, professor of surgery; chief, Division of Critical Care, Trauma and Burn; and vice chairman for Clinical Affairs, Department of Surgery was interviewed on July 23, 2010, by WSYX-TV ABC 6 News about the recent spike in violent activity throughout central Ohio which has landed several victims in the emergency department. During the interview Dr. Steinberg discussed the physical and emotional effects of gunshot injuries.

**Dr. Thomas E. Williams, Jr.**, clinical associate professor of surgery in the Division of Cardiothoracic Surgery, was quoted in the August 2009 issue of *General Surgery News*, in a story about federal legislation that could help ward off a surgical work force shortage.

## Distinguished Visiting Professors

### **Dr. W. Virgil Brown**

Dr. W. Virgil Brown, Charles Howard Candler Professor of Internal Medicine and director, Division of Arteriosclerosis and Lipid Metabolism, Emory University School of Medicine; chief of medicine, Atlanta Veterans Affairs Medical Center presented the Karl P. Klassen Lecture “Guidelines for Heart Disease Prevention: Time for New Approaches?”, May 20, 2010.

### **Dr. John R. Clarke**

Dr. John R. Clarke, professor of surgery, Drexel University College of Medicine; executive director of the Philadelphia Academy of Surgery; clinical director for patient safety and quality initiatives, Emergency Care Research Institute, and clinical director of the Pennsylvania Patient Safety Authority presented a Surgery Grand Rounds titled “Working Together to Keep Your Patients Safe in the O.R.”, July 9, 2009.

### **Dr. Joseph S. Coselli**

Dr. Joseph S. Coselli, Cullen Foundation Endowed Chair, professor and chief, Division of Cardiothoracic Surgery, Baylor College of Medicine; associate chief, Cardiovascular Service, St. Luke’s Episcopal Hospital and chief, Adult Cardiac Surgery, Texas Medical Center, presented a Surgery Grand Rounds titled “Hybrid Aortic Repair: Combining Open and Endovascular Approaches to Complex Repair”, February 28, 2010.

### **Dr. Julie A. Freischlag**

Dr. Julie A. Freischlag, William Stewart Halsted Professor, chair, Department of Surgery, and Surgeon-in-Chief at The Johns Hopkins Hospital, presented a Surgery Grand Rounds titled “Abdominal Aortic Aneurysms - How Things Have Changed Over 50 Years”, January 28, 2010.

### **Dr. Tracy L. Hull**

Dr. Tracy L. Hull, professor of surgery, Department of Colon and Rectal Surgery, The Cleveland Clinic Foundation, presented a Surgery Grand Rounds titled “Issues in the Posterior Pelvis”, March 18, 2010.

### **Dr. Goran Hansson**

Dr. Goran Hansson, professor and head, Cardiovascular Research Laboratory, Karolinska University Hospital, Stockholm; secretary, Nobel Committee for Physiology or Medicine and member, Board of the Nobel Foundation; and chairman, Louis-Jeantet Foundation, presented the Karl P. Klassen lecture “Atherosclerosis, Stem Cells, Heart Failure and Vascular Biology”, November 12, 2009.

### **Dr. David N. Herndon**

Dr. David N. Herndon, Jesse H. Jones Distinguished Chair in Burn Surgery, and professor of surgery, University of Texas Medical Branch; chief of staff and director of research, Shriners Burn Hospital in Galveston, Texas, presented a Surgery Grand Rounds titled “Modulating the Hypermetabolic Response to Burns: Surgery, Drugs, Diet, and Exercise”, January 21, 2010.

**Dr. Roger G. Keith**

Dr. Roger G. Keith, professor of surgery, and head, Division of General Surgery, Department of Surgery, University of Saskatchewan, presented a Surgery Grand Rounds titled “The Canadian Health Care System”, April 5, 2010.

**Dr. Keith C. Kocis**

Dr. Keith C. Kocis, professor of anesthesia, pediatrics and biomedical engineering (adjunct), Division of Pediatric Critical Care Medicine Fellowship Director, University of North Carolina, Chapel Hill, North Carolina, presented Grand Rounds titled “Improving Inpatient Pediatric Safety and Outcomes with Real Time Continuous Risk Analysis”, Visiting Professor in Critical Care, January 27-28, 2010.

**Dr. Barry J. Marshall**

Dr. Barry J. Marshall, professor of clinical microbiology, University of Western Australia; and 2005 Nobel Laureate presented a “Question and Answer Session”, May 11, 2010.

**Dr. David W. McFadden**

Dr. David W. McFadden, Stanley S. Fieber professor and chair, Department of Surgery, University of Vermont; surgeon-in-chief, Fletcher Allen Health Care; and interim associate director for clinical cancer care and research, Vermont Cancer Center presented a Surgery Grand Rounds titled “Surgical Groupthink”, October 29, 2010.

**Dr. Mary H. McGrath**

Dr. Mary H. McGrath, professor of surgery, Division of Plastic and Reconstructive Surgery, University of California San Francisco presented a Surgery Grand Rounds titled “Surgeons, Innovation and Industry - Balancing Competing Interests”, May 27, 2010.

**Dr. Richard G. Ohye**

Dr. Richard G. Ohye, associate professor of surgery and division head, Pediatric Cardiovascular Surgery; surgical director, Pediatric Heart Transplant Program; program director, Congenital Cardiac Surgery Fellowship Program, University of Michigan Medical Center, presented a Surgery Grand Rounds titled “Congenital Heart Surgery: Past, Present and Future”, May 13, 2010.

**Dr. James A. O'Neill, Jr.**

Dr. James A. O'Neill, Jr., Emeritus John Clinton Foshee Distinguished Professor of Surgery, Vanderbilt University School of Medicine, Director of Clinical Program Development and Education for the Meharry-Vanderbilt Alliance, Nashville, Tennessee, presented Pediatric Grand Rounds titled, “Pediatric Surgery: Then and Now.” H. William Clatworthy Visiting Professor in Pediatric Surgery, October 7-8, 2009.

**Dr. Raphael E. Pollock**

Dr. Raphael E. Pollock, professor and chairman, Department of Surgical Oncology; head, Division of Surgery, Senator A.M. Aiken, Jr. Distinguished Chair, and professor of molecular and cellular oncology, University of Texas M.D. Anderson Cancer Center presented a Surgery Grand Rounds titled “Contemporary Management of Soft Tissue Sarcoma”, September 24, 2009. Dr. Pollock presented the Michael J. Walker, MD Lecture in Surgical Oncology titled “New Approached to Soft Tissue Sarcoma”, September 25, 2009.

**Dr. Peter D. Reaven**

Dr. Peter D. Reaven, professor of clinical medicine, University of Arizona; director, Diabetes Program, Carl T. Hayden VA Medical Center presented “CVD and Glycemic Control: Who Should We Target?” as a special guest lecturer during the Klassen Research Day, May 20, 2010.

**Dr. Steven C. Stain**

Dr. Steven Stain, Neil Lempert Professor and chair, Department of Surgery, Albany Medical College; surgeon-in-chief, Albany Medical Center Hospital presented the annual Robert M. Zollinger Lecture titled “Is it Time to Restructure Surgical Residency Training?”, May 7, 2010.

**Dr. Julio A. Teixeira**

Dr. Julio A. Teixeira, associate clinical professor of surgery, Columbia University College of Physicians and Surgeons; and chief, Division of Minimally Invasive Surgery, St. Luke’s-Roosevelt Hospital Center, presented a Surgery Grand Rounds titled “How Do We Make Progress in Surgery: The Case for Single Port”, December 17, 2009.

## Integrated and Affiliated Hospitals

### **The Ohio State University Medical Center**

Consistently recognized as one of America's best hospitals, The Ohio State University Medical Center is dedicated to patient care, research, and medical education. An institution with advanced diagnostic and therapeutic capabilities and more than 900 licensed beds, Ohio State's Medical Center is a major tertiary referral center and a Level I trauma center with a helicopter transport service. A network of primary care centers refers patients to the Medical Center's comprehensive patient management system.



*The Ohio State University  
Medical Center*

### **The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute**

Dedicated to care of the cancer patient and to cancer research, the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute is the only freestanding cancer hospital in Ohio and is one of 16 charter members of the National Comprehensive Cancer Network. An institution with 160 licensed beds, the James is adjacent to Ohio State's Medical Center.



*The James Cancer Hospital*

### **The Richard M. Ross Heart Hospital**

Home to Ohio State's nationally-ranked heart program and dedicated exclusively to the care of patients with cardiovascular disease, the Richard M. Ross Heart Hospital is a 150-bed, state-of-the-art institution offering advanced imaging and surgical technologies and patient care facilities. The hospital adjoins Ohio State's Medical Center.



*The Ross Heart Hospital*

### **University Hospital East**

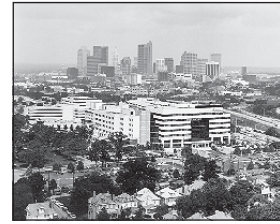
A full-service hospital with an emphasis on family medicine, orthopedic care, and emergency medicine, University Hospital East is located on the near east side of Columbus, six miles from Ohio State.



*University Hospital East*

**Nationwide Children's Hospital**

The fifth-largest freestanding children's hospital in the United States, Nationwide Children's Hospital provides a broad spectrum of services, from advanced neonatal intensive care and surgery to primary and secondary medical care. Children's Hospital is fully integrated with the training programs of the College of Medicine and The Ohio State University Medical Center. A Level I trauma center, Children's is located just east of downtown Columbus, five miles from Ohio State.

*Children's Hospital***Grant Medical Center**

Located in the heart of downtown Columbus, five miles from Ohio State, Grant Medical Center is a busy, respected hospital and a Level I trauma center.

*Grant Medical Center***Mount Carmel West**

An active and respected health-care provider, Mount Carmel West is located just west of downtown Columbus, five miles from Ohio State.

*Mount Carmel West***Riverside Methodist Hospital**

Known for high-quality care, Riverside Methodist Hospital is located on the north side of Columbus, four miles from Ohio State.

*Riverside Hospital*

## Chairmen of the Department of Surgery

1914–1916	Dr. William J. Means
1916–1922	Dr. Verne A. Dodd (Head of Clinical Surgery)
1922–1926	Dr. Charles S. Hamilton
1927–1946	Dr. Verne A. Dodd (Head of Clinical Surgery)
1936–1952	Dr. George M. Curtis (Chairman of Surgical Research)
1946–1974	Dr. Robert M. Zollinger
1975–1986	Dr. Larry C. Carey
1987–1992	Dr. Olga Jonasson
1993–1998	Dr. Ronald M. Ferguson
1999 – present	Dr. E. Christopher Ellison



## A Legacy of Leadership

A bronze bust of Dr. Edwin H. Ellison is on exhibit in the Department of Surgery's display case on the sixth floor of 395 West 12th Avenue, in recognition of the former faculty member's contributions to The Ohio State University Medical Center.

Dr. Ellison joined the faculty of the department in 1946, after completing his residency in general surgery at Ohio State, under the mentorship of Dr. Robert M. Zollinger, then chairman of the department.

Dr. Ellison and Dr. Zollinger went on to perform the landmark studies that resulted in their identification of the disorder now known as Zollinger-Ellison syndrome, a condition characterized by intractable peptic ulcers, gastric hypersecretion and hyperacidity, and the occurrence of gastrinomas of the pancreatic cells of the islets of Langerhans. Their findings were published in *Annals of Surgery* in 1955.

Dr. Ellison served on the surgical faculty at Ohio State for 12 years. During this time, his achievements as a gifted clinical physician and technical surgeon, inspiring educator, and accomplished surgical investigator were important influences in the department's rapid development and success after World War II.

In 1958, Dr. Ellison accepted an appointment as professor and chairman of surgery at Marquette University School of Medicine, now the Medical College of Wisconsin, in Milwaukee.

At Marquette, Dr. Ellison trained Dr. Larry C. Carey, who later, from 1975 to 1985, would serve as professor and chairman of surgery at Ohio State.

While at Ohio State, Dr. Carey trained Ellison's son, Dr. E. Christopher Ellison, now the Robert M. Zollinger professor and chairman of surgery, associate vice president for health sciences, and vice dean of clinical affairs at The Ohio State University Medical Center.

"Dr. [Edwin] Ellison was unique," Dr. Carey said during a 1994 interview. "He had a remarkable ability to get more out of people than was in them. He convinced all of us that we were a lot better than we were, and having done so, he helped us achieve more than we might have."

Under Dr. Ellison's leadership, the surgical faculty at Marquette made important contributions to the field of gastrointestinal surgery, and the department and its academic reputation grew and flourished.



*Bust of Dr. Edwin H. Ellison*

Dr. Ellison died in 1970. He is remembered as a successful leader in academic surgery who made significant contributions to the profession of surgery, both at The Ohio State University Medical Center and at the Medical College of Wisconsin.

The bust of Dr. Ellison was sculpted by artist Anna D. Christoforidis, who also created the bust of Dr. Zollinger exhibited in the department's display case.



*Instruments presented to Dr. Robert M. Zollinger*

#### **Also on Exhibit**

Also on exhibit is a set of surgical instruments that belonged to Dr. Robert M. Zollinger, chairman of the Department of Surgery from 1946 to 1974.

The instruments, a pair of Metzenbaum surgical scissors, were presented to Dr. Zollinger in 1970 by the then chief residents in general surgery: Dr. Michael F. Kaplan, Dr. Avram R. Kraft, Dr. Paul C. Redmond, Dr. Gary M. Richardson, and Dr. Thomas T. Vogel.

The instruments were donated to the Department of Surgery by Dr. Zollinger's son, Dr. Robert M. Zollinger, emeritus professor of surgery at Case Western Reserve University, in Cleveland, Ohio.

# Cardiothoracic Surgery



**Patrick Ross, Jr., M.D., Ph.D.**

Interim Chief, Division of Cardiothoracic Surgery

**T**he Division of Cardiothoracic Surgery has completed another successful year in all sections – cardiac, congenital, research and thoracic as well as in all arenas – clinical, research, education and leadership. We have focused on clinical program organization, research programs and funding, and faculty development.

The section of cardiac surgery has advanced on a number of fronts. We have maintained a strong national presence in the area of ventricular assist devices and mechanical support. Our clinical program success and the OSU experience have been shared in presentations nationally and internationally. The VAD program and the heart transplant program are the surgical arms of an outstanding heart failure center; the heart transplant volume continues to increase. The program in surgical management of atrial fibrillation has grown significantly in volume this year; a novel approach to this complex problem has been reported by our team in *Annals of Thoracic Surgery*. Recently, our division has been awarded the opportunity to become a site for percutaneous valve therapy. The OSU team believes that this innovative therapy will impact the management of valvular heart disease in the future. Each of these programs highlights the collaborative nature of our practice which involves cardiovascular anesthesiology, cardiology interventional cardiology, cardiac surgery, and imaging. During the next year we will translate our collaborative experience into our daily delivery of care as we explore a new hospitalist/intensivist based inpatient care model. Finally, we congratulate Juan Crestanello, MD on his promotion to Associate Professor.

The section of research which is led by Dr. Sampath Parthasarathy has had a productive year. The team has competed successfully at the national level for multiple funding opportunities. Additionally, we have been able to fund projects through industry sources and development funds. Our faculty have presented a number of papers in a variety of venues. Dr. Parthasarathy has utilized his skills as a scientific mentor by collaborating in the research efforts of our clinical faculty. Under Dr.

Parthasarathy's leadership, our division hosted two Klassen Research Days this year. The first was November 12, 2009 and featured the Secretary of the Nobel Committee for Physiology and Medicine and member of the Board of the Nobel Foundation, Goran Hansson, M.D., PhD. The Klassen Research Day on May 20, 2010, featured the President of the International Atherosclerosis Society and Former President of the American Heart Association, W. Virgil Brown, M.D. from Emory University School of Medicine in Atlanta, Georgia, and special guest speaker Peter D. Reaven, M.D., from the University of Arizona, Tucson who is the Director of the Diabetes Program at the Carl T. Hayden VA Medical Center in Phoenix, Arizona. This Klassen Research Day was an unqualified success.

The section of thoracic surgery has focused on program development and research. The clinical programs cover the spectrum of thoracic oncology and end stage lung disease. Each area utilizes the expertise of multiple specialties which underscores our emphasis on multi-disciplinary therapy. National recognition for our programs in photodynamic therapy (PDT) and lung volume reduction surgery (LVRS) has continued. The LVRS program has maintained Joint Commission certification. We have been selected to participate in an international outcomes study on PDT for lung and esophageal cancer. This year we have brought additional success to clinical trials by concentrating on the development of investigator-initiated protocols and clinical trial accruals. During this year, the thoracic team which includes faculty, mid-level providers, nurses and house staff has focused on quality and throughput resulting in a significant decrease in average length of stay for our inpatients. Faculty news includes the recruitment of Ed Kassis, M.D. who joined the team after completing his fellowship at MD Anderson; he will focus on thoracic oncology. During this year Patrick Ross, MD, PhD has served his first year as Chief of Staff for the James Cancer Hospital. We congratulate Susan Moffatt-Bruce, MD, PhD, on her new role as Chief Quality and Patient Safety Officer for the health system.

The Division of Cardiothoracic Surgery has grown in all arenas and achieved national as well as international recognition. Our department leadership has recognized the efforts and successes of the faculty as well as the increasing specialization of the sections. In the next year, we will develop these sections into two divisions, Cardiac Surgery and Thoracic Surgery, providing the opportunity for both teams to achieve additional clinical and research prominence. Robert Higgins, MD will lead the Division of Cardiac Surgery. Patrick Ross, MD, PhD will be chief of the Division of Thoracic Surgery.

## Faculty

**Patrick Ross, Jr., M.D., Ph.D.**

Professor of Clinical Surgery; Interim Chief, Division of Cardiothoracic Surgery

**A.B.:** Harvard University, Cambridge, Mass., 1977

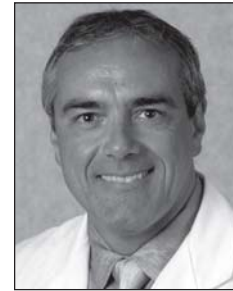
**M.D., Ph.D.:** St. Louis University, St. Louis, Mo., 1983

**Specialty Training:** University of Pennsylvania, Philadelphia, Pa.

**Appointment:** 1991

**Specialty Interests:** Lung volume reduction, thoracic surgical oncology, benign noncardiac thoracic disease, lung transplantation

**Research Interests:** New modality lung cancer therapy



Ross

**Juan A. Crestanello, M.D.**

Associate Professor of Surgery

**M.D.:** University of the Republic of Uruguay Medical School, Montevideo, Uruguay

**Specialty Training:** General surgery residency, University of Maryland Medical System, Baltimore, Md.; cardiothoracic surgery research, Hahnemann University, Philadelphia, Pa., and University of Maryland, Baltimore, Md.

**Appointment:** 2004

**Specialty Interests:** Cardiac surgery

**Research Interests:** Ischemic preconditioning, mitochondrial function during ischemic preconditioning, myocardial ischemia reperfusion injury, cell transplantation, the effect of myocardial oxygen content on survival of transplanted cells



Crestanello

**Michael S. Firstenberg, M.D.**

Assistant Professor of Surgery

**B.A.:** University of Chicago, Chicago, Ill., 1990

**M.D.:** Case Western Reserve University, Cleveland, Ohio, 1996

**Specialty Training:** The Ohio State University Medical Center, Columbus, Ohio; Cleveland Clinic, Cleveland, Ohio; National Heart, Lung, and Blood Institute, Bethesda, Md.; University Hospitals, Cleveland, Ohio

**Appointment:** 2007

**Specialty Interests:** Adult acquired and congenital cardiac surgery, cardiothoracic critical care, mechanical assist, heart failure

**Research Interests:** Cardiac imaging and physiology, mechanical assist



Firstenberg

**Mark Galantowicz, M.D.**

Associate Professor of Clinical Surgery

**B.A.:** University of Pennsylvania, Philadelphia, Pa., 1982

**M.D.:** Cornell University Medical College, New York, N.Y., 1987

**Specialty Training:** Columbia-Presbyterian Medical Center, New York, N.Y.

**Appointment:** 2002

**Specialty Interests:** Pediatric transplantation and surgery



*Galantowicz*

**Edmund S. Kassis, M.D.**

Assistant Professor of Surgery

**B.S.:** University of Pittsburgh, Pittsburgh, Pa., 1992

**M.D.:** University of Pittsburgh, Pittsburgh, Pa., 1999

**Specialty Training:** Johns Hopkins University Hospital, Baltimore, Md.; National Cancer Institute, Bethesda, Md.; University of Texas M. D. Anderson Cancer Center, Houston, Tx.

**Appointment:** 2009

**Specialty Interests:** Cardiothoracic surgery



*Kassis*

**Pawel Kwiatkowski, M.D.**

Assistant Professor of Surgery

**B.A.:** ILO Swietochlowice, Poland, 1982

**M.D.:** Silesian Academy of Medicine, Katowice, Poland, 1988

**Specialty Training:** Silesian Academy Medical Center, Zabrze, Poland; Columbia University, New York, N.Y.

**Appointment:** 1998

**Research Interests:** Transplant immunology, including xenotransplantation and allotransplantation of heart and lung



*Kwiatkowski*

**Louis B. Louis, IV, M.D.**

Assistant Professor of Surgery

**B.A.:** Virginia Military Institute, Lexington, Va., 1994

**M.D.:** University of Miami, Miami, Fla., 1998

**Specialty Training:** The Ohio State University, Columbus, Ohio

**Appointment:** 2008

**Specialty Interests:** Adult cardiac surgery, surgery for heart failure, mechanical circulatory support, cardiac transplantation, cardiovascular surgical critical care



*Louis*



**Susan D. Moffatt-Bruce, M.D., Ph.D.**

Assistant Professor of Surgery

**B.A.:** McGill University, Montreal, Quebec, Canada, 1990

**M.D.:** Dalhousie University, Halifax, Nova Scotia, Canada, 1994

**Ph.D.:** University of Cambridge, Cambridge, United Kingdom, 1999

**Specialty Training:** Residency in general surgery, Dalhousie University, Halifax, Nova Scotia, Canada; fellowship in cardiothoracic surgery, Stanford University, Palo Alto, Ca.

**Appointment:** 2006

**Specialty Interests:** Lung transplant, heart transplant, transplant outcomes, thoracic oncology

**Research Interests:** Transplant immunology



*Moffatt-Bruce*

**Sampath Parthasarathy, Ph.D., M.B.A.**

The Karl P. Klassen Professor of Surgery; Director of Research, Division of Cardiothoracic Surgery

**Ph.D.:** Indian Institute of Science, Bangalore, India, 1975

**M.B.A.:** University of Phoenix, 2004

**Specialty Training:** Kyoto University, Kyoto, Japan; Duke University, Durham, N.C.; the Hormel Institute, University of Minnesota, Austin, Mn.

**Appointment:** 2006

**Research Interests:** Vascular biology and medicine



*Parthasarathy*

**Alistair B. M. Phillips, M.D.**

Assistant Professor of Surgery

**B.S.:** Johns Hopkins University, Baltimore, Md., 1990

**M.D.:** Columbia University, New York, N.Y., 1994

**Specialty Training:** Residency in general and cardiothoracic surgery, New York-Presbyterian Hospital and Weill Cornell Medical Center, New York, N.Y.; fellowship in pediatric cardiac surgery, Columbia University Medical Center, New York, N.Y.

**Appointment:** 2006

**Specialty Interests:** Pediatric cardiothoracic surgery



*Phillips*

**Chittoor B. Sai-Sudhakar, M.B.B.S., F.A.C.S., F.R.C.S.**

Assistant Professor of Surgery

**B.A.:** Loyola College, Madras, India, 1975

**B.Sc.:** Presidency College, Madras, India, 1976

**M.B.B.S.:** Stanley Medical College, Madras, India, 1982

**Specialty Training:** Yale-affiliated residency, St. Mary's Hospital, Waterbury, Ct.

**Appointment:** 2003

**Specialty Interests:** Aortic surgery, heart failure

**Research Interests:** Pathways in endothelial cells



*Sai-Sudhakar*

**John H. Sirak, M.D.**

Assistant Professor of Clinical Surgery

**B.A.:** Amherst College, Amherst, Mass., 1985

**M.D.:** Case Western Reserve University, Cleveland, Ohio, 1991

**Specialty Training:** General surgery residency, minimally invasive cardiothoracic surgery fellowship, The Ohio State University, Columbus, Ohio; arrhythmia surgery fellowship, Cleveland Clinic, Cleveland, Ohio

**Appointment:** 2004

**Specialty Interests:** Surgery for atrial fibrillation

**Research Interests:** Transplant immunology



Sirak

**Benjamin C. Sun, M.D.**

Associate Professor of Surgery; Director, Cardiac Transplantation and Mechanical Support

**B.S.:** Yale University, New Haven, Conn., 1984

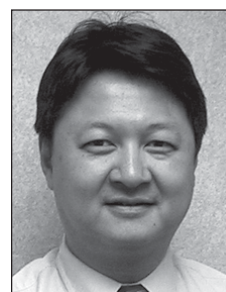
**M.D.:** State University of New York, Stony Brook, N.Y., 1989

**Specialty Training:** University of North Carolina Hospitals, Chapel Hill, N.C.; Columbia-Presbyterian Medical Center, New York, N.Y.

**Appointment:** 2002

**Specialty Interests:** Heart transplantation

**Research Interests:** Direct mechanical ventricular actuation



Sun

**Paul A. Vesco, M.D.**

Assistant Professor of Surgery

**B.A.:** Washington and Jefferson College, Washington, Pa., 1993

**M.D.:** University of Kentucky, Lexington, Ky., 1997

**Specialty Training:** The Ohio State University, Columbus, Ohio

**Appointment:** 2008

**Specialty Interests:** Minimally invasive robotic cardiac and thoracic surgery



Vesco



## New Full-Time Faculty Appointments

**Edmund S. Kassir, M.D.**

Assistant Professor of Surgery

## Emeritus Faculty

**J. Terrance Davis, M.D.**

Professor Emeritus of Clinical Surgery

**B.A.:** Williams College, Williamstown, Mass., 1963

**M.D.:** University of Pennsylvania, Philadelphia, Pa., 1967

**Gerard S. Kakos, M.D.**

Clinical Associate Professor Emeritus of Surgery

**B.A.:** The Ohio State University, Columbus, Ohio, 1964

**M.D.:** The Ohio State University, Columbus, Ohio, 1967

**James W. Kilman, M.D.**

Professor Emeritus of Surgery

**B.S.:** Indiana State University, Terre Haute, Ind., 1956

**M.D.:** Indiana State University, Indianapolis, Ind., 1960

**Charles V. Meckstroth, M.D.**

Professor Emeritus of Surgery

**B.A.:** The Ohio State University, Columbus, Ohio, 1944

**M.D.:** The Ohio State University, Columbus, Ohio, 1947

**M.M.Sc. (Surgery):** The Ohio State University, Columbus, Ohio, 1950

**Howard D. Sirak, M.D.**

Professor Emeritus of Surgery

**A.B.:** University of Pennsylvania, Philadelphia, Pa., 1943

**M.D.:** The Ohio State University, Columbus, Ohio, 1947

**M.M.Sc. (Surgery):** The Ohio State University, Columbus, Ohio, 1953

## Clinical Faculty

**Patrick McConnell, M.D.**

Clinical Associate Professor of Surgery

**B.A.:** Creighton University, Omaha, Neb., 1994

**M.S., M.D.:** University of Nebraska, Omaha, Neb., 1999

**Thomas E. Williams, Jr., M.D., Ph.D.**

Clinical Associate Professor of Surgery

**B.A.:** Princeton University, Princeton, N.J., 1957

**M.S., M.D.:** The Ohio State University, Columbus, Ohio, 1963

**Ph.D.:** Northwestern University, Evanston, Ill., 1969

## Resident Staff

**Sergio Carrillo**

PGY-6

**M.D.:** Universidad de San Carlos, Guatemala, 2002

**Murtaza Dawood, M.D.**

PGY-7

**B.S.:** University of Maryland, College Park, Md., 1997

**M.D.:** Saba University, Netherlands-Antilles, 2002

**Brian Goodman, M.D.**

PGY-7

**B.S.:** University of Miami, Coral Gables, Fla., 1996

**M.D.:** University of Vermont, Burlington, Vt., 2003

**Charles Jason Rousseau, D.O.**

PGY-6

**B.S.:** Samford University, Birmingham, AL, 2000

**D.O.:** Nova Southeastern University College of Osteopathic Medicine, Ft. Lauderdale, FL, 2004

**Wing Yeen, M.B.B.S.**

PGY-8

**M.B.B.S.:** University of Sydney, Sydney, NSW, Australia, 1998

## Mission

The Division of Cardiothoracic Surgery is dedicated to preserving and improving life for patients with heart and lung disease.

## Research Programs

- ABLATE CAP
- Associations between Adverse Events and Surgical Types
- CardioWest Temporary Total Artificial Heart CardioWest Temporary Total Artificial Heart Post market surveillance study
- Carotid Retrospective study
- Chronic heart failure model in sheep
- Circulating endothelial cells and thrombosis
- Clinical Trial of the On-X Valve Using Low Dose Anticoagulation
- Comparative Clinical and Pharmacoeconomic Study Comparing Argatroban® IV vs. Desirudin SC for Patients with Suspected Heparin-Induced Thrombocytopenia (HIT) without Clinically Evident Thrombosis: PREVENT-HIT
- Comparative Mutational Profiling as the Standard of Care in Assessing Lung Lesions
- Cormatrix Study
- C-Pulse Implantable Counterpulsation Pump for treating Heart Failure
- CTSN- Moderate MR Study
- CTSN- Severe MR Study
- Destiny Trial: Effects of Mitral Valve Annuloplasty with the Geoform Ring on Left Ventricular Geometry and function in patients with Cardiomyopathy
- Dietary oxidized lipids and atherosclerosis

- Evaluation of the HeartWare LVAD system for the treatment of Advanced Heart Failure
- HeartMate II VAD destination therapy
- HYBRID Observational Study
- Hyponatremia during Cardiac Surgery
- The Immunobiology of Insulin Resistance: The role of T regulatory Cells
- Immunobiology of photodynamic therapy in Lung Cancer Patients
- Immunobiology of Transplant-Related Heart Failure
- INTERMACS (Interagency Registry for Mechanically-Assisted Circulatory Support) NHLBI/CMS/ UNOS
- Levitronix CentriMag LVAS for failure to wean CPB
- Mechanical, cellular and pharmacological therapy for congestive heart failure
- Mechanisms of Bronchiolitis Obliterans in Pediatric and Adult Lung Transplants
- Medtronic Mosaic® vs. Carpentier-Edwards®Perimount® All-Cause Patient Survival
- Neuropathy after Lung Transplantation
- A Novel Approach to Generate Regulatory T Cells using CD103 Depletion
- OSU Heart Center Biobank
- Patient Discharge using the AB Portable Driver System
- Pilot Study Assessing Robotic Video-Assisted Thoracic Surgery (RATS) Versus Standard Thoracotomy for Malignant Lesions
- Preclinical cardiac device study
- A Prospective Multi-Center Randomized Clinical Study to Evaluate the PleuraSeal Sealant System as an Adjunct to Standard Closure Techniques for Control of Visceral Pleural Air Leaks Following Elective Pulmonary Resection Via Open Thoracotomy

- A Randomized, Multicenter, Double-Blind, Group-Sequential Study to Evaluate the Efficacy, Immunogenicity, and Safety of a Single Dose of Merck 0657nI Staphylococcus aureus Vaccine V710 in Adult Patients Scheduled for Cardiothoracic Surgery
- A Randomized Study to Compare Sizing, Implant Techniques and Hemodynamic Performance between the Mitroflow and the Carpenter-Edwards Magna Pericardial Tissue Valves in the Aortic Position
- RED-CABG Trial
- Resident Anatomy Study
- A Retrospective and Prospective Study of Patients with Atrial Fibrillation and the Post-operative Outcomes, Quality of Life, and Arrhythmia Re-occurrence Rates after Undergoing the Total Thoracoscopic Maze Procedure
- Role and mechanism of oxygen tension and oxidative stress in regulating the development of intimal hyperplasia in human saphenous veins cultures ex-vivo
- Role of Macrophages in Acute Cellular Rejection in Cardiac Transplantation
- Scherring Plough CABG Clinical Research Study
- Simultaneous carotid endarterectomy and cardiac surgery
- STICH protocol for surgical treatment for ischemic heart failure. NHLBI
- Study to Determine the Presence of Oxidized Low Density Lipoproteins (Ox-LDL) and its Degradation Products in the Blood and Left Ventricular Tissue of Patients with Heart Failure
- Thoratec left ventricular assist device congestive heart failure sheep
- Thrombosis model of heart failure in sheep
- VAD Watch Telehealth Monitoring in the Residential Setting
- VentrAssist bridge to transplant
- VentrAssist destination therapy

## Accomplishments in Research

- Klassen Research Day, November 2009, Klassen lecturer Goran K. Hansson, MD., Ph.D., Professor and head, Cardiovascular Research Laboratory, Karolinska University Hospital, Stockholm, Sweden. Secretary, Nobel Committee for Physiology or Medicine and member, Board of the Nobel Foundation. Chairman, Louis-Jeantet Foundation presented “Inflammation, immunity, and atherosclerosis”.
- Klassen Research Day, May 2010, Klassen lecturer W. Virgil Brown, MD, Charles Howard Candler Professor of Medicine Emeritus, Emory University School of Medicine, Atlanta, Georgia, Former President, American Heart Association, President, International Atherosclerosis Society presented “Guidelines for Heart Disease Prevention: Time for New Approaches?” and Special Guest Lecturer Peter D. Reaven, MD, Professor of Clinical Medicine, University of Arizona, Tucson, Director, Diabetes Program, Carl T. Hayden VA Medical Center, Phoenix, Arizona presented “CVD and Glycemic Control: Who Should We Target?”.
- Dr. Juan Crestanello accepted an invitation to join the editorial board of the *Journal of Surgical Research*. As a member of the board, Dr. Crestanello will serve a 3-year term with an option for a second term and will review manuscripts in his field of expertise. Dr. Crestanello previously served the journal as an ad hoc reviewer.
- Dr. Sampath Parthasarathy received the CCTS research award: pilot program to study through the OSU Center for Clinical and Translational Science (CCTS). Dr. Parthasarathy and Dr. Martha Beluri will study “Diabetic hypertriglyceridemia: A new mechanism and potential treatment options” using \$30,000 that is available through this mechanism. The application was selected was one of the eight applications that the review committee selected out of 45 outstanding proposals. This award is partially funded by the NIH Clinical and Translational Science Award to The Ohio State University.
- Dr. Patrick Ross, Jr. received a grant in the amount of \$250,000 to investigate a web-based photo dynamic therapy (PDT) patient registry solution to help streamline the data collection and outcomes analysis process. The grant is part of a contract between The Ohio State University Comprehensive Cancer Center; Arthur G. James Cancer Hospital, the Richard J. Solove Research Institute (OSUCCC-James) and Global Vision Technologies (GVT) to develop software called ClinicalPURSUIT, a powerful, HIPAA compliant, cost-effective patient registry software tool that will help OSUCCC-James work with real-time, accurate information on their patients daily.
- Dr. Benjamin Sun is co-investigator for a study titled “Electrical and mechanical behavior of live human myocardium in health and disease,” which has received a grant of \$1 million for two years, from the National Heart, Lung, and Blood Institute.

## Active Research Grants

**Crestanello J.** Destiny trial: effects of mitral valve annuloplasty with the GeoForm Ring on left ventricular geometry and function in patients with cardiomyopathy. Edwards Lifesciences, November 3, 2006 – November 3, 2009, \$57,190.

**Crestanello J.** Measurement of free radical generation in the heart. National Institutes of Health, Minority Supplemental Grant R01, March 1, 2006 – to November 30, 2009, \$112,125/year.

**Crestanello J.** Postconditioning, free oxygen radical generation and mitochondrial function. Thoracic Surgery Foundation for Research and Education, 2008 Research Grant, July 1, 2008 – June 30, 2010, \$60,000.

**Kuppusamy P, Kwiatkowski P.** Noninvasive monitoring of in situ oxygenation and cell therapy in infarcted heart. National Institutes of Health, R01, July 1, 2007 – June 30, 2012, \$1,250,000.

**Moffatt-Bruce S, Astor T.** Mechanisms of bronchiolitis obliterans in pediatric and adult lung transplants. 2008–2009 The Ohio State University/Nationwide Collaborative Research Award, August 1, 2008 – December 31, 2009, \$50,000.

**Moffatt-Bruce S, Hadley G.** The role of macrophages in acute cellular rejection in cardiac transplant rejection. Clinical and Translational Science Award, K12 Scholars Award 2009–2011, \$196,000/year.

**Parthasarathy S.** Adherent and non-adherent macrophages in cell survival and death. American Heart Association, Great Rivers Affiliate, July 1, 2008 – June 30, 2010, \$21,000.

**Parthasarathy S.** Novel mechanisms by which aspirin might protect against atherosclerosis. National Heart, Lung, and Blood Institute, R01, July 1, 2008 – June 30, 2013, \$250,000/year.

**Parthasarathy S.** Oxidation hypothesis: paradoxes and pitfalls. National Institutes of Health, R01, December 1, 2001 – July 31, 2009, \$250,000/year.

**Phillips ABM.** Cytoskeletal alterations in a porcine model of restrictive ventricular septal defect. Society of Cardiovascular Anesthesiologists, September 1, 2008 – August 31, 2010, \$40,000 for two years.

**Sai-Sudhakar CB.** Clinical trial of the On-X valve using low dose anticoagulation. Medical Carbon Research Institute, LLC, December 1, 2006 – November 30, 2013, \$3,600.

**Sai-Sudhakar CB.** Potential auto-antibodies to endothelial cells and their role in angiogenesis and neovascularization following acute coronary events. Davis/Bremer Research Grant, 2008–2010, \$50,000 annually for two years.

**Sai-Sudhakar CB.** A randomized, controlled, phase 3 study of gentamicin-collagen sponge (Collatamp G) in cardiac surgical subjects at higher risk for sternal wound infection. Duke University, February 11, 2008 – December 31, 2009, \$14,520.

**Sidell N, Parthasarathy S.** Nuclear antioxidants in the prevention of endometriosis. Emory Consortium, July 1, 2008 – June 30, 2010, \$37,500.

**Sirak JH.** Stentless porcine bioprostheses for aortic valve replacement model NR-200 Plus and model NR-200C Plus No React treated porcine bioprostheses for aortic valve replacement. Shelhigh, Inc., March 10, 2006 – March 10, 2010, \$96,000.

**Sun B.** Preclinical cardiac device study. BioVentrix, February 29, 2008 – June 30, 2010, \$215,000.

**Sun B.** SynCardia CardioWest Temporary Total Artificial Heart (TAH-t) post-market surveillance study. SynCardia Systems, Inc., October 27, 2006 – July 24, 2009, \$3,300.

## Clinical Programs

- Adult cardiothoracic surgery
- Aortic surgery
- Arrhythmia surgery
- Heart failure surgery
- Heart transplantation
- Heart-lung transplantation
- Lung transplantation
- Lung volume reduction surgery
- Mechanical circulatory support
- Minimally invasive heart surgery
- Photodynamic therapy
- Robotic surgery
- Thoracic oncology
- Total artificial heart transplantation



## Accomplishments in Clinical Care

- Dr. Michael Firstenberg was highlighted in the OSU Medical Center publication *Medical Staff News* for his high patient satisfaction scores. Dr. Firstenberg attributed his high rating to directing the patient's care from presurgery exam throughout hospitalization and follow-up, and making himself available to address patient's questions and concerns. He also stressed the importance of caring not only for the patient, but for the patient's family too. Dr. Firstenberg strives to explain the surgical process, helping patients and their families understand what is happening.
- Dr. Patrick Ross, Jr. became Chief of Staff for Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, Columbus, Ohio, 2009-2011.

## Clinical Statistics

OR Procedures	2,702
Outpatient Visits	6,119
Admissions	2,043
Patient Days	18,278
Average Length of Stay (Days)	8.95

## Educational Programs

- Two-year cardiothoracic surgery fellowship accredited by the Accreditation Council for Graduate Medical Education.
- One-year fellowship in mechanical circulatory support.
- Comprehensive rotation in cardiothoracic surgery for first- and third-year residents in general surgery.

## Accomplishments in Education

- Completion of the cardiothoracic surgery fellowship by Dr. Patrick McConnell in October 2009 and Dr. Murtaza Dawood and Dr. Brian Goodman in June 2010.
- Awarding of the Samuel J. Roessler Memorial Medical Research Scholarships to medical student Cassondra Majestic, under the direction of her research advisor, Dr. Susan Moffatt-Bruce.

## Accomplishments in Teaching

- Dr. Sampath Parthasarathy received the Excellence in Mentorship award by the Davis Heart and Lung Research Institute for student and faculty level mentoring excellence in 2009.

## Publications

**Adolph MD, Stretanski MF, McGregor JM, Rawn B, Ross P Jr., Benedetti C.** Intracerebroventricular Morphine for Refractory Cancer Pain: Transitioning to the Home Setting. *American Journal of Hospice and Palliative Medicine* January 26, 2010 epub ahead of print

**Benzo R, Farrell MH, Chang CC, Martinez FJ, Kaplan R, Reilly J, Criner G, Wise R, Make B, Luketich J, Fishman AP, Sciurba FC, Ross P Jr.** Integrating health status and survival data: the palliative effect of lung volume reduction surgery. *Am J Respir Crit Care Med.* 2009; 180(3):239-46.

**Bertino EM, Confer PD, Colonna JE, Ross P, Otterson GA.** Pulmonary neuroendocrine/carcinoid tumors: a review article. *Cancer* 2009 Oct 1;115(19):4434-41.

**Crestanello JA, Daniels C, Cook SC, Hitchcock CL, Sai-Sudhakar C.** Medial necrosis in aortic root aneurysm after repair of tetralogy of Fallot. *J Cardiac Surgery* 2010; 25(2):230-232.

**Crestanello JA, Daniels C, Franco V, Raman SV.** Pre- and postoperative evaluation of partial anomalous pulmonary venous return by 3-dimensional cardiovascular magnetic resonance imaging and cardiovascular computed tomography. *Tex Heart Inst J* 2010;37(1):113-5.

**Crumb SR, Cook SC, Cheatham JP, Galantowicz M, Feltes TF, Phillips A, Chan DP, Holzer RJ, Sisk M, Olshove V, Cook LR, Hickey JC, Hill SL, Daniels CJ.** Quality outcomes of ACHD patients undergoing cardiovascular procedures and hospital admissions in a free-standing children's hospital. *Journal of Interventional Cardiology* 2009 Aug 7. [Epub ahead of print]

**Dickerson JA, Smith M, Kalbfleisch S, Firstenberg MS.** Lipomatous Hypertrophy of the Intraatrial Septum Resulting in Right Atrial Inflow Obstruction and Atrial Flutter. *Ann Thorac Surg* 2010 May;89(5):1647-9.

**Emami S, Louis LB, Hasan A, Sai-Sudhakar C, Sun B.** Characteristics of Patients Receiving Ventricular Assist Devices as a Bridge to Cardiac Transplant Candidacy. *J Heart Lung Transplant* 2010 February; 29(2S):S24-S25.

**Firstenberg MS, Abel E, Blais D, Andritsos M.** Delayed Malignant Hyperthermia Following Routine Coronary Artery Bypass. *Ann Thorac Surg* 2010; 89(3):947-948.

**Firstenberg MS, Blais D, Crestanello J, Sai-Sudhakar C, Sirak J, Louis LB, Vesco P, Sun B.** Long-term mechanical support for complex left ventricular postinfarct pseudoaneurysms. *Heart Surg Forum* 2009 Oct;12(5):E291-3.

**Firstenberg MS, Blais D, Louis LB, Stevenson KB, Sun B, Mangino JE.** Extracorporeal membrane oxygenation for pandemic (H1N1) 2009 [letter]. *Emerg Infect Dis*. 2009 Dec;15(12):2059-60. No abstract available.

**Firstenberg MS; Hasan A; Abel E; Blais D; Sun B.** Aortic Rupture in a Heart Transplant Patient Following Recent Blunt Aortic Trauma. *J Card Surg* 2010 Mar;25(2):240-2. Epub 2010 Feb 2.

**Firstenberg MS, Sirak JH, Sun B, Kasick DP.** Factitious disorders and cardiothoracic surgery: the ongoing multidisciplinary challenges of a complex case. *Case Report Med* 2009;2009:103265. Epub 2009 Dec 8.

**Garelnabi M, Veledar E, Abramson J, White-Welkley J, Santanam N, Weintraub W, Parthasarathy S.** Physical inactivity and cardiovascular risk: baseline observations from men and premenopausal women. *J Clin Lab Anal* 2010 Mar;24(2):100-5.

**Giardino ND, Curtis JL, Andrei AC, Fan VS, Benditt JO, Lyubkin M, Naunheim K, Criner G, Make B, Wise RA, Murray SK, Fishman AP, Sciurba FC, Liberzon I, Martinez FJ; NETT Research Group.** Anxiety is associated with diminished exercise performance and quality of life in severe emphysema: a cross-sectional study. *Respir Res* 2010 Mar 9;11:29.

**Han MK, Wise R, Mumford J, Sciurba F, Criner GJ, Curtis JL, Murray S, Sternberg A, Weinman G, Kazerooni E, Fishman AP, Make B, Hoffman EA, Mosenifar Z, Martinez FJ; NETT Research Group.** Prevalence and clinical correlates of bronchoreversibility in severe emphysema. *Eur Respir J* 2010 May;35(5):1048-56. Epub 2009 Nov 19.

**Haubert LM, Jones K, Moffatt-Bruce SD.** Surgical Clinical Correlates in Anatomy: Design and Implementation of a First-Year Medical School Program. *Anat Sci Educ* 2009 Nov;2(6):265-72.

**Holzer RJ, Green J, Bergdall V, Chisolm JL, Hill SL, Galantowicz M, Cheatham JP, Phillips A.** An animal model for Hybrid Stage I palliation of hypoplastic left heart syndrome. *Pediatric Cardiology* 2009 October;30(7):922-927.

**Holzer RJ, Sisk M, Chisolm JL, Hill SL, Olshove V, Phillips A, Cheatham JP, Galantowicz M.** Completion angiography after cardiac surgery for congenital heart disease: complementing the intraoperative imaging modalities. *Pediatric Cardiology* 2009 November;30(8):1075-1082. Epub July 23, 2009.

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**Kampfrath T, Deiliis JA, Moffatt-Bruce SD, Anderson J, Sun Q, Wood K, Ostrowski MC, Rajagopalan S.** A mouse model of yellow fluorescent protein (YFP) expression in hematopoietic cells to assess leukocyte-endothelial interactions in the microcirculation. *Microvasc Res* 2009 Dec;78(3):294-300.

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## Abstracts

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**Ravi Y, John R, Salerno C, Yanssens T, Wissman S, Firstenberg MS, Sun B, Louis L, Sai-Sudhakar CB.** Lead Fractures in Left Ventricular Assist Devices-A Multi-Institutional Experience [Abstract]. *Journal of Heart and Lung Transplantation* 2010 February;29(2S).

**Ravi Y, Knapke A, Wissman S, Yanssens T, Sun B, Louis L, Firstenberg MS, Needleman B, Hasan A, Sai-Sudhakar CB.** Trends in Body Mass Index Following Long Term Mechanical Circulatory Support [Abstract]. *The Journal of Heart and Lung Transplantation* 2010 February;25(29).

**Rousseau CJ, Moffatt-Bruce S, Ross P JR, Vesco PA, Kassis ES.** Electromagnetic Navigational Bronchoscopy (EMNB) is a Safe and Accurate Technique for Diagnosis of Peripheral Lung Lesions [Abstract]. *American College of Surgeons Clinical Congress*. February 2010.

**Schumer E, Zikri N, Tam M, Hadley G, Moffatt-Bruce S.** A Novel Approach to Generate Regulatory T Cells Using CD103 Depletion [Abstract]. *ACS Annual Congress*. September 2009. (Published)

**Sharma S, Crestanello JA.** Characteristics of patients that show improvement in LV ejection fraction after coronary artery bypass graft surgery. *Medical Student Program of the American College of Surgeons, Division of Education*. Chicago, IL, October, 2009. *4th Annual Dorothy M Davis Heart and Lung Research Institute Research Day*. Columbus, OH, October 29, 2009. *J Surg Res* 2010 Feb;158(2):228.

**Sharma S, Crestanello J.** Factors that prevent improvement in left ventricular ejection fraction after coronary artery bypass graft surgery. *9th Annual OSUMC Research Day*. Abstract# 376. The Ohio State University Medical Center, Columbus, OH, April 8, 2010.

**Steinbaugh GE, Lee DS, Cramer B, Quarrie R, Pfeiffer DR, Zweier JL, Crestanello JA.** Gender does not affect lack of cardioprotection by postconditioning in the isolated rat heart. *4th Annual Dorothy M Davis Heart and Lung Research Institute Research Day*. Columbus, OH, October 29, 2009.

**Steinbaugh GE, Lee DS, Cramer BM, Quarrie R, Zweier JL, Crestanello JA.** Failure of cardioprotection by postconditioning is not gender specific in the isolated rat heart. *J Surg Res* 2010 Feb;158(2):358.

**Vandergrift JL, Mamet R, Zornosa C, Reid ME, Rabin MS, Ettinger DS, Kalemkerian GP, Otterson GA, Niland JC, Pisters K, NCCN Oncology Outcomes Database Non-Small Cell Lung Cancer Disease Specific Executive Committee.** First-line systemic therapy in metastatic non-small cell lung cancer (mNSCLC) patients treated at National Comprehensive Cancer Network (NCCN) institutions: An analysis from the NCCN Oncology Outcomes Database Project. *American Society of Clinical Oncology*, June 4-8, 2010, Chicago, Illinois.

**Williams TE Jr, Sun B, Ross P Jr, Thomas AM.** A formidable task: Population analysis predicts a deficit of 200 cardiothoracic surgeons by 2030 [Abstract] (Forthcoming) 2010.

**Zornosa C, Mamet R, Reid ME, Ettinger DS, Otterson GA, Rabin MS, Hayman J, Niland JC, Pisters K, NCCN Oncology Outcomes Database Non-Small Cell Lung Cancer Disease Specific Executive Committee.** Utilization of adjuvant therapy among completely resected non-small cell lung cancer (NSCLC) patients in the National Comprehensive Cancer Network (NCCN) outcomes database project. *American Society of Clinical Oncology*, June 4-8, 2010, Chicago, Illinois.

## Books

**Williams TE Jr., Satiani B, Ellison EC.** *The Coming Shortage of Surgeons: Why They Are Disappearing and What That Means for Our Health*. Praeger:ABC-CLIO, GREENWOOD. September 15, 2009.

## Book Chapters

**Sai-Sudhakar CB.** A Cardiac Surgeon's Perspective. An Introductory Guide to Cardiac CT Imaging. 1st ed. Columbus, OH, Lippincott, Williams & Wilkins. December 1, 2009, 81-90.

## International Presentations

**Firstenberg MS.** Innovations in Weaning from Cardiopulmonary Bypass and VAD: An Update. 59th International Congress of the European Society for Cardiovascular Surgery/6th Congress of Update in Cardiology and Cardiovascular Surgery. Izmir/Cesme, Turkey, April 15, 2010.

**Firstenberg MS.** Where are we in ECMO and ECLS in 2009: ECMO - Which Oxygenator? Why? How Long? 59th International Congress of The European Society for Cardiovascular Surgery / 6th Congress of Update in Cardiology and Cardiovascular Surgery (Perfusion Course). Izmir/Cesme, Turkey. April 18, 2010.

**Firstenberg MS, Carrillo S, Sopirala M, Mangino J, Louis LB, Ali N, Sun B.** Extracorporeal Membrane Oxygenation (ECMO) as salvage Therapy for Pandemic 2009 (H1N1) Influenza Respiratory Failure. 59th International Congress of The European Society for Cardiovascular Surgery / 6th Congress of Update in Cardiology and Cardiovascular Surgery. Izmir/Cesme, Turkey. April 18, 2010.

**Firstenberg MS, Louis LB, Blais D, Vesco P, Sirak JH, Sai-Sudhakar C, Newton H, Sun B, Crestanello JA.** Acute Pulmonary Embolism and Advanced Neurological Malignancies: Salvage Surgical Management in an Otherwise Hopeless Situation. World Society of Cardiothoracic Surgeons, Buenos Aires, Argentina, November, 2009.

**Galantowicz M.** Hybrid Approaches to Complex Congenital Heart Disease. 15th All-Russian Congress of Cardiovascular Surgeons, Moscow, Russia, December 6, 2009.

**Louis LB, Firstenberg MS, Sai-Sudhakar C, Crestanello JA, Vesco PA, Hasan A, Sun B.** The Ohio State University Medical Center Experience with Adult Extra Corporeal Membrane Oxygenation (ECMO) for Cardiogenic Shock. World Society of Cardiothoracic Surgeons, Buenos Aires, Argentina, November, 2009.

**Vesco PA.** Update in Minimally Invasive and Robotic Thoracic Surgery for Surgical Management of Early Stage Lung Cancer. XI International Congress of Dominican Society Hematology and Oncology, Punta Cana, Babaro, April 30, 2010.

**Vesco PA.** Mediastinal Evaluation of Resectable Lung Cancer and Role of Palliative Surgical Procedures. XI International Congress of Dominican Society Hematology and Oncology, Punta Cana, Babaro, April 30, 2010.

## National Presentations

**Crestanello JA.** Superoxide radical production by mitochondria respiratory complexes I and III is decreased by ischemic preconditioning. The American College of Surgeons. Surgical Forum, Chicago, IL, October 14, 2009.

**Crestanello JA.** Debate multivessel coronary artery disease: CABG is best. The Ohio State University Heart and Vascular Center Contemporary Multidisciplinary Cardiovascular Medicine. A disease based learning experience for the practitioner. Orlando, FL, October 16, 2009.

**Crestanello JA.** Aortic Valve Sparing root replacement. The Ohio State University Heart and Vascular Center Contemporary Multidisciplinary Cardiovascular Medicine. A disease based learning experience for the practitioner. Orlando, FL, October 17, 2009.

**Emani S, Louis LB, Hasan A, Sai-Sudhakar C, Sun B.** Characteristics of Patients Receiving Ventricular Assist Devices as a Bridge to Cardiac Transplant Candidacy. *J Heart Lung Transplant* 29(2S). ISHLT 30th Annual Meeting and Scientific Sessions, Chicago, IL, April 21-24, 2010.

**Galantowicz M.** Utilization of Hybrid Technology in Hypoplastic Left Heart Syndrome. 3rd Annual Bakken Symposium, Minneapolis, MN, December 8, 2009.

**Haubert L, Jones K, Moffatt-Bruce SD.** Surgical Clinical Correlates in Anatomy: Implementation of a First Year Medical Student Program: A Look at Results. American Association of Clinical Anatomists, Cleveland, Ohio, July 17, 2009.

**Lee D.** Ischemic Preconditioning Preserves Respiratory Complex Activity And Decreases Reactive Oxygen Species Production In Rat Heart Mitochondria. 5th Annual Academic Surgical Congress, San Antonio, Texas, February 5, 2010.

**Lee D.** Failure Of Cardioprotection By Postconditioning Is Not Gender Specific In The Isolated Rat Heart. 5th Annual Academic Surgical Congress, San Antonio, Texas, February 5, 2010.

**Lee D.** Mitochondrial Depolarization Is Not responsible for Cardioprotection During Ischemic Preconditioning. American College of Cardiology 10 and i2 Summit, Atlanta, GA, March 15, 2010.

**Phillips A.** Hybrid Stage I & II HLHS, surgical perspective and lessons learned. STS 46th Annual Meeting, Ft. Lauderdale, FL, January 27, 2010.

**Phillips A.** Hybrid Procedures, Interventional Devices, Balloons, and Catheters. STS-U #11: Congenital Course, STS 46th Annual Meeting, Ft. Lauderdale, FL, January 27, 2010.

**Quarrie R.** Ischemic Preconditioning Attenuates Mitochondrial H<sup>+</sup> Leak and Decreases Reactive Oxygen Species Production. 5th Annual Academic Surgical Congress, San Antonio, Texas, February 5, 2010.

**Ravi Y, John R, Salerno C, Yanssens T, Wissman S, Firstenberg MS, Sun B, Louis LB, Sai-Sudhakar C.** Lead Fractures in Left Ventricular Assist Devices. A Multi-Institutional Experience. *Journal of Heart and Lung Transplantation* 2010;29(2S):S52. ISHLT 30th Annual Meeting and Scientific Sessions, Chicago, IL, April 21-24, 2010.

**Ravi Y, Knapke A, Wissman S, Yanssens T, Sun B, Louis LB, Firstenberg MS, Needleman B, Hasan A, Sai-Sudhakar C.** Trends in Body Mass Index Following Long Term Mechanical Circulatory Support. *Journal of Heart and Lung Transplantation* 2010;29(2S):S183. ISHLT 30th Annual Meeting and Scientific Sessions, Chicago, IL, April 21-24, 2010.

**Ross P Jr.** Oncodiagnosis Panel: Detection and Treatment of Early Lung Cancer: Current Controversies and Future Directions. RSNA Oncodiagnosis Panel at 94th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, IL, November 29, 2009.

**Sai-Sudhakar C.** Automated Quantitative Modeling of the Aortic Valve and The Root in Aortic Regurgitation Using Volumetric 3-D Transthoracic Echocardiography. American College of Cardiology 59th Annual Scientific Session, Atlanta, GA, March 14-16, 2010.

**Sai-Sudhakar C.** Circulating Thrombus causes release of Endothelial Cells and Endothelial Cells Derived Particles. 5th Annual Surgical Congress, San Antonio, TX, February 3-5, 2010.

**Sirak, J.** A Novel Five-Box Verification Technique in a Thoracoscopic Procedure for Atrial Fibrillation. Society of Thoracic Surgeons, Ft. Lauderdale, FL, January 25, 2010.

**Sun B.** Partnering Clinical and Economics - Existing Center Experience. Thoratec 2009 VAD Economic Summit, Dallas, TX, October 1, 2009.

**Sun B, Chair.** Advances in Diagnosis and Treatment of Cardiovascular Diseases II. Contemporary Multi-Disciplinary Cardiovascular Medicine. Orlando, FL, October 16, 2009.

**Sun B.** When is High Risk Conventional Surgery on Alternative to Mechanical Support? Heart Failure Society of America, Boston, MA, September 16, 2009.

**Sun B.** Myocardial Remodeling with LVAD Therapy: New Concepts and Trials. American Heart Association. Orlando, FL, November 16, 2009.

**Williams TE, Satiani B, Ellison EC, Gabbe S, Souba W.** The Impending Surgical Threat To The Rural Hospitals. Association of American Medical Colleges, Alexandria, VA, May 6, 2010.

## Miscellaneous Presentations

**Crestanello JA.** Cardiothoracic Surgery in 2 hrs. Medical Student Lecture, The Ohio State University, Columbus, OH, August 10, 2009.

**Crestanello JA.** Ischemic pre-conditioning decreases mitochondrial ROS production without increasing proton leak. Columbus Surgical Society, Columbus, OH, February 6, 2010.

**Crestanello JA.** Proton Leak and Reactive Oxygen Species Production in Ischemia-Reperfusion. Columbus Surgical Society Presidential Forum, Columbus, OH, February 6, 2010.

**Crestanello JA.** Robotics in Cardiac Surgery. What's New In Robotic Surgery Across Specialties? The Ohio State University, Columbus, OH, February 26, 2010.

**Firstenberg MS.** Deep Hypothermic Circulatory Arrest (DHCA) - "Circ Arrest". The Science and Practical Applications, The Ohio State University Medical Center, Columbus, OH, August 21, 2009 and August 28, 2009.

**Firstenberg MS.** Clinical Skills Immersion Experience: Chest Tube Thoracostomy. The Ohio State University College of Medicine, Columbus, OH, August 26, 2009.

**Firstenberg MS.** ECMO for ARDS and Sepsis: An Evolving Tool. The Ohio State University Medical Center, Columbus, OH, September 27-28, 2009.

**Firstenberg MS.** Rescue Therapy for ARDS: The Evolving Role of Extra-Corporeal Membrane Oxygenation. The Ohio State University Medical Center MATCH Conference - Multidisciplinary Advances in the Treatment of the Critically Ill Patient, Columbus, Ohio, September 29, 2009.

**Firstenberg MS.** Extracorporeal Membrane Oxygenation (ECMO) – An Update. The Ohio State University Medical Center Division of Cardiology Grand Rounds, Columbus, OH, October 2, 2009.

**Firstenberg MS.** ECMO - A Four Letter Word or the Key to Surviving Pandemic H1N1. Eighth Annual Heart Failure Update, The Ohio State University Medical Center, Columbus, OH, October 9, 2009. Kettering Medical Center, Department of Cardiology Grand Rounds, Dayton, OH, January 19, 2010.

**Firstenberg MS.** Update on Pandemic Influenza (H1N1). The Ohio State University College of Pharmacy, Columbus, OH, October 15, 2009.

**Firstenberg MS.** CABG vs PCI: The Great Debate, 2. The Ohio State University Medical Center, Heart Of It All: Cardiac and Vascular Nursing Conference, Columbus, Ohio. November 3, 2009.

**Firstenberg MS.** Management of Staphylococcus Infections: A Cardiac Surgery Perspective. The Klassen Research Symposium, The Ohio State University Medical Center, Columbus, OH, November 12, 2009.

**Firstenberg MS.** Practical and Technical Aspects of the Use of Extracorporeal Membrane Oxygenation. The Ohio State University Medical Center, Columbus, OH, November 22, 2009.

**Firstenberg MS.** The Nuts and Bolts of Extracorporeal Membrane Oxygenation. The Ohio State University Medical Center Department of Pulmonary and Critical Care Grand Rounds, Columbus, OH, November 23, 2009.

**Firstenberg MS.** Why Do I Need A Surgeon to Treat Pneumonia? Influenza in Central Ohio 2009: Pulmonary Grand Rounds, The Ohio State University Medical Center, Columbus, OH, December 4, 2009.

**Firstenberg MS.** Thorocostomy Tube (Chest Tube) Insertion - Techniques and Anatomy. The Ohio State University College of Medicine, Columbus, OH, February 24, 2010 and April 21, 2010.

**Firstenberg MS.** The Evolving Role of Extra-corporeal Membrane Oxygenation (ECMO) in Acute Cardiopulmonary failure in Sepsis. Current Concepts in Respiratory Care 2010, The Ohio State University, Columbus, Ohio, April 30, 2010.

**Firstenberg MS.** Introduction to Cardiac Surgery: A Show and Tell of What We Do. The Ohio State University Medical Center, Columbus, OH, May 12, 2010.

**Firstenberg MS.** Obstructive Sleep Disorders: Peri-operative Management and the Role of The Surgical Team. Good Samaritan Hospital, Dayton, OH, May 26, 2010.

**Kassis ES.** Multimodality Therapy in Esophageal Cancer. Genesis HealthCare System, Zanesville, Ohio, 2009.

**Kassis ES.** Staging and Management Esophageal Carcinoma, Licking Memorial Hospital, Newark, OH, 2010.

**Kassis ES.** Pancoast Tumors. The Ohio State University Cardiothoracic Surgery Fellows' Conference, Columbus, OH, 2009.

**Kassis ES.** Staging and Management of Esophageal Cancer. The Ohio State University Cardiothoracic Surgery Fellows' Conference, Columbus, OH, 2009.

**Kassis ES.** The Mediastinum. The Ohio State University Medical Student Anatomy Dissection, 2009.

**Kwiatkowski P.** Development of a New Large Animal Model of Heart Failure. Karl P. Klassen Research Day Lecture, The Ohio State University, Columbus, OH, November 11, 2009.

**Lee D.** Ischemic Preconditioning Reduces Reactive Oxygen Species Production and Protects Respiratory Complex Activity in Rat Heart Mitochondria. DHLRI Research Day, The Ohio State University, Columbus, OH, October 29, 2010.



**Moffatt-Bruce SD.** Mediastinal Tumors. The Ohio State University College of Medicine, Columbus, OH, September 2009.

**Moffatt-Bruce SD.** Transplant Immunobiology, The Ohio State University College of Medicine, Columbus, OH, September 2009.

**Moffatt-Bruce SD.** Comparative Mutational Profiling in Lung Cancer: the standard of care? The Ohio State University College of Medicine, Columbus, OH, September 2009.

**Moffatt-Bruce SD.** Foreign Bodies. The Ohio State University College of Medicine, Columbus, OH, September 4, 2009.

**Moffatt-Bruce SD.** Transplant Immunobiology. CTC Transplant Conference Series, The Ohio State University College of Medicine, Columbus, OH, September 9, 2009.

**Moffatt-Bruce SD.** Quality Improvement Rounds: Engaging the Team. The Ohio State University College of Medicine, Columbus, OH, 2010.

**Moffatt-Bruce SD.** The Role of Macrophages in Cardiac Transplant Rejection. MVIMG Lecture Series, The Ohio State University College of Medicine, Columbus, OH, March 2010.

**Phillips A.** A Surgeon's Perspective on Congenital Heart Disease. CTIUC Skills Day 2009, Nationwide Children's Hospital, Columbus, OH, July 29, 2009.

**Quarrie R.** Mitochondrial H<sup>+</sup> Leak is Decreased by IPC Resulting in Lower Reactive Oxygen Species Production. DHLRI Research Day, The Ohio State University, Columbus, OH, October 29, 2009. Poster presentation, August 31, 2009.

**Quarrie R.** Ischemic Preconditioning Preserves Mitochondrial Membrane Potential and Decreases Reactive Oxygen Species Production. OSUMC Research Day, Columbus, OH, April 8, 2010.

**Quarrie R.** Ischemia-Reperfusion Injury Dissipates Mitochondrial Membrane Potential through Increased Proton Leak. 55th Ohio ACS Annual Meeting, Columbus Ohio, May 7, 2010.

**Quarrie R.** The Role of Proton Leak, Membrane Potential and Reactive Oxygen Species Production in Ischemic Preconditioning. 15th Annual Department of Surgery Research Day, The Ohio State University Medical Center, Columbus, OH, May 28, 2010.

**Ross P Jr.** Thoracic Malignancies. O'Bleness Memorial Hospital, Athens, Ohio, August 19, 2009.

**Ross P Jr.** Photodynamic Therapy. Cancer Registry, Crown Plaza Hotel, Dublin, Ohio, September 24, 2009.



**Ross P Jr.** NSCLC: Minimally Invasive and Endoluminal Approaches. Tumor Board, Greene Memorial Hospital, Xenia, Ohio, October 22, 2009.

**Sai-Sudhakar C.** In the Quest for the Ultimate VAD from Model T to Dream Machine. The Eighth Annual Heart Failure Update: Tackling Common Challenges in Heart Failure Management, The Ohio State University Medical Center, Columbus, Ohio, October 2009.

**Sai-Sudhakar C.** What's New in Ventricular Assist Devices. Scioto County Medical Society, 40th Annual Postgraduate Medical Education Seminar, Southern Ohio Medical Center Friends Center, Portsmouth, OH, October 23, 2009- October 24, 2009.

**Sai-Sudhakar C.** Mechanical Circulatory Support at The Ohio State University Medical Center A Multi-disciplinary Approach to Building a World Class Program. The Ohio State University Medical Center, Columbus, OH, 2010. University of Cincinnati Medical Center, Cincinnati, OH, 2010.

**Sai-Sudhakar C.** A VAD Update. Scioto County Medical Society, Portsmouth, OH, 2010.

**Steinbaugh G.** Gender Does Not Affect Lack of Cardioprotection by Postconditioning in the Isolated Rat Heart. DHLRI Research Day, The Ohio State University Medical Center, Columbus, OH, October 29, 2009.

**Sun B.** Inhaled Nitric Oxide: Indications in the Adult Population. Riverside Methodist Hospital Educational Conference, Columbus, Ohio, November 4, 2009.

**Vesco PA.** Robotics in Thoracic Surgery. What's New in Robotic Surgery Across Specialties, The Ohio State University Medical Center, Columbus, Ohio, February 26, 2010.



# Critical Care, Trauma, and Burn



**Steven M. Steinberg, M.D.**

Chief, Division of Critical Care, Trauma, and Burn

**T**he Division of Critical Care, Trauma, and Burn was formed in March, 2006 with the charge of enhancing the Department of Surgery's programs in surgical critical care, trauma, burns and emergency general surgery and developing an acute care surgery program. This last year has seen continued growth in both faculty and also clinical volume and scholarly activity.

This year, the division recruited two new faculty members: Paul R. Beery II, MD and Brian S. Porshinsky, MD. Dr. Beery received his Bachelor of Music Education from The Ohio State University in 1992. After a brief career in music, he graduated from The Ohio State University College of Medicine and Public Health in 1999 and did his General Surgery residency and Surgical Critical Care fellowship at Ohio State, also receiving a Master of Science in Surgical Critical Care. He then completed a one-year Trauma Surgery mentorship and joined a trauma and critical care practice at Grant Medical Center in Columbus, Ohio. After deciding to pursue an academic career, Dr. Beery joined the faculty of The Ohio State University in 2009 as an Assistant Professor of Clinical Surgery in the Division of Critical Care, Trauma, and Burn. His interests include surgical education, trauma, and critical care.

Dr. Porshinsky grew up in Worthington, Ohio. He completed his undergraduate studies at The Ohio State University and then went on to obtain his medical degree from the Medical College of Ohio in Toledo. He then did his General Surgery Residency also at the Medical College of Ohio Hospital. He next completed a fellowship in Plastic and Reconstructive Surgery at the University of Illinois at Chicago. He then followed this with a one-year fellowship dedicated to Burns at the New York Presbyterian Hospital/Cornell Burn Center. He completed a Surgical Critical Care Fellowship at The Ohio State University Medical Center in June 2009. He joined the faculty of the Division of Critical Care, Trauma, and Burn in July 2009 as an Assistant Professor and as Assistant Director of the OSU Burn Center. His interests include acute burn care, fluid resuscitation, and reconstructive burn surgery.

As a division, there have been a number of notable accomplishments in the past year:

- The American College of Surgeons has reverified The Ohio State University Medical Center as a 'Level I' trauma center in July 2009, denoting it as a regional resource to care for the most critically ill and injured patients.
- Our surgical critical care fellowship had all four spots filled this past year. Dr. Daniel Eiferman is joining our faculty at OSU, Dr. James Howard begins fellowship training with an emphasis on burn surgery, Dr. David Evans returns to the general surgery residency program, and Dr. Benjamin Morris begins an appointment as Assistant Professor in Anesthesiology/Critical Care at Wake Forest University in Winston-Salem, North Carolina.
- The Critical Care Signature Program, of which our division is a key member, continues to progress. Dr. Steinberg continues to act as co-chair of the system-wide critical care quality committee, which meets monthly.
- The Trauma Program, under the leadership of Dr. Steven Steinberg, continues to show an increase in activity with over 2231 trauma admissions in 2009, reflecting a 1.4 percent increase over the previous year. Over the past five years there has been a 17 percent increase in the growth of the program. Of the patients admitted 29 percent had a moderate to severe Injury Severity Score and 44 percent of the patients required at least 1 operative procedure. Of patients that arrive by EMS, 50 percent of the patients transferred in from outside hospitals and 50 percent of the patients came directly from the scene of the event.

The division also developed a number of new patient care guidelines and protocols including a massive transfusion protocol and a cervical spine clearance protocol.

Dr. Charles H. Cook, associate professor of surgery, continued his research in cytomegalovirus (CMV) infections and bacterial sepsis during critical illness. His laboratory continues to focus on how cytomegalovirus reactivation causes lung injury in immunocompetent patients. In addition to his research pursuits, Dr. Cook continues to be active in the care of injured and critically ill patients and is medical director of the Surgical Intensive Care Unit.

Dr. David E. Lindsey, assistant professor of clinical surgery, is now in his third year. Dr. Lindsey is currently participating in the cardiovascular mortality reduction project at the Medical Center. He is an ATLS Trauma Course Director. He was appointed by the American College of Surgeons (ACS), Committee on Trauma, as an active member of the ACS Ohio Committee on Trauma. Dr. Lindsey is active in the care of injured and critically ill patients. He was selected and attended the American College of Surgeons Leadership Conference May 23-26, 2010 in Chicago, Illinois. He was elected to membership in the Central Surgical Association this past year.

Dr. Sidney F. Miller, professor of surgery, is the director of the OSU Burn Center. He is an authority on burn care and serves in leadership roles on local and national levels. He serves on the board of trustees of the American Burn Association and currently serves as president of that organization. He is an

editorial board member of the “Journal of Burns” and “Journal of Burn Care and Rehabilitation.” Dr. Miller currently serves on the Ohio Department of Public Safety EMS Board’s Trauma Committee and the Ohio Department of Homeland Security Interagency Response Group. Dr. Miller served as a member of the American College of Surgeons’ Committee on Trauma for 18 years as Ohio State Committee on Trauma vice-chair and chair and as Region Chief for Region V of the COT. He is a member of the external review panel for the Department of Defense Combat Casualty Care Program. This program is developing new and improved methods of evaluating and treating our injured military personnel and the work done by the Combat Casualty Care Program will be translatable to the civilian community. He is a past governor of the American College of Surgeons and a past president of the Ohio Chapter of the American College of Surgeons. Under the direction of Dr. Miller, the burn program has been established at Ohio State University. In addition to patient care the program has established an Annual Burn Survivor Family Camp and implemented the Survivors Offering Assistance in Recovery (SOAR) program which provides peer support to patients in the OSU Burn Center.

Dr. Stanislaw P. Stawicki, assistant professor of surgery, is in his second year with us. He is the Principal Organizer, First Annual Scientific and Board Meeting, OPUS 12 Foundation, Inc. Bethlehem, Pennsylvania (February 3-5, 2009). He is participating on several Medical Center Committees: Trauma Bay Reorganization, Interdisciplinary Sentinel Event Committee-Wrong Site Surgery Task Force, and the Trauma Radiology Improvement Task Force. He has published 16 scientific manuscripts and is performing 6 IRB-approved studies. His research this year has resulted in 5 podium and 4 poster presentations at regional, national and international meetings. He is an ATLS instructor and has taught in several courses this year. Dr. Stawicki has presented numerous lectures and led many small group discussions for the surgical critical care fellows and residents rotating on both the surgical ICU and trauma/emergency general surgery services. Dr. Stawicki was named Director of Research for the Division of Critical Care, Trauma, and Burn, The Ohio State University Medical Center on July 1, 2009. He received a Letter of Commendation from the Chief Medical Officer for participation in the Sentinel Event Taskforce on Retained Surgical Foreign Bodies, The Ohio State University Medical Center, Columbus, Ohio on July 15, 2009. He received Third Place at the Poster Competition, the 2009 American College of Physicians – Arizona Chapter Scientific Meeting for the presentation titled *Cardiac Doppler Examinations of E, E’, A, and A’ Waves: Evaluating Echographic Measurement Biases Between Cardiologist and Non-Cardiologist Intensivists* in Tucson, Arizona, September 26-27, 2009. In addition to being named to the Editorial Board of the *International Journal of Orthopaedics* and a Section Editor (Critical Sonology Science) for the *Journal of Emergencies, Trauma, and Shock*, Dr. Stawicki was also invited to become the Editor-In-Chief of the *International Journal of Critical Illness and Injury Science*.

Dr. Steven M. Steinberg, professor of surgery, is the director of the Division of Critical Care, Trauma and Burn and is a member of the board and the clinical trauma committee of Central Ohio Trauma Systems. He also is a member of the State of Ohio Emergency Medical Services Board. He serves as the chair of University Hospital Operating Room Committee and is a member of the Health System Operating Room Coordinating Committee, Leadership Council for Clinical Quality and Safety, and the Medical Staff Officers Group for The Ohio State University Medical Center. He is an editorial board member of *Selected Readings in General Surgery*. Under his leadership, the American College of Surgeons reverified The Ohio State University Medical Center as a ‘Level I’ trauma center in July 2009. He has been selected as the recipient of the American College of Surgeons/American Surgical Association Health Policy Scholarship for the year 2010. Dr. Steinberg continues to be active in surgical education and critical care.

Dr. Melissa L. Whitmill, assistant professor of clinical surgery, joined us in August 2008. She has been appointed Medical Director of Nutrition Services at OSUMC. She recently became a member of the Eastern Association of Trauma Surgeons and the Neurocritical Care Society. She is an ATLS instructor and has taught in several courses this year. Dr. Whitmill has also taken charge of helping develop our division's educational programs in trauma and emergency general surgery. She has taught a bedside skills course for intensivists. More recently, she has accepted the responsibility of performing team training for trauma and emergency medicine residents in trauma.

Rebecca Coffey, RN, CNP, burn nurse practitioner, is on the Nursing Research Executive Council and she is also the co-leader of the wound care practice group, which is a subgroup of the Nursing Research Executive Council. In the past year she has provided outreach education to multiple EMS, referral hospitals and ED. She received the 2009 Clinical Excellence Award from the OSU Medical Center.

Susan Yeager, MS, RN, CCRN, ACNP, nurse practitioner, currently serves as Chair for the Advance Practice Nurse Committee for the hospital. She is a FCCS and Trauma Tactics instructor and has been invited to be a guest lecturer at the 2010 Multidisciplinary Advances in the Treatment of the Critically-Ill Hospitalized patient and Advanced Practice conferences. Nationally she is actively involved on the newly formed Advanced Practitioner Council for the Eastern Association for the Surgery of Trauma (EAST). She continues to serve on the NeuroCritical Care Society (NCS) Annual Meeting and Nursing Committees. For the NCS, she will serve as moderator/presenter at the upcoming meeting speaking on the integration of Advanced Practitioners into the ICU setting. Within the state of Ohio, she continues her involvement with the American Academy of Nurse Practitioners by remaining an active member of the Schedule II narcotic taskforce.

Dr. Daniel Eiferman, Dr. David Evans, Dr. James Howard, and Dr. Benjamin Morris completed their surgical critical care fellowships.

## Faculty

**Steven M. Steinberg, M.D.**

Professor of Surgery; Vice Chairman for Clinical Affairs, Department of Surgery; Chief, Division of Critical Care, Trauma, and Burn

**B.Sc.:** The Ohio State University, Columbus, Ohio, 1975

**M.D.:** The Ohio State University, Columbus, Ohio, 1978

**Specialty Training:** The Ohio State University, Columbus, Ohio

**Appointment:** 1999

**Specialty Interests:** General surgery

**Research Interests:** Alterations in splanchnic microcirculation in shock; hemodynamic assessment in critical illness; adequacy of hemodynamic resuscitation in shock; sepsis and organ failure; trauma



Steinberg

**Paul R. Beery, II, M.D.**

Assistant Professor of Clinical Surgery

**B.M.E.:** The Ohio State University, Columbus, Ohio, 1992

**M.D.:** The Ohio State University, Columbus, Ohio, 1999

**M.S.:** The Ohio State University, Columbus, Ohio, 2005

**Specialty Training:** The Ohio State University, Columbus, Ohio

**Appointment:** 2009

**Specialty Interests:** Trauma, surgical critical care



Beery

**Charles H. Cook, M.D.**

Associate Professor of Surgery; Medical Director, Surgical Critical Care

**B.S.:** Pennsylvania State University, University Park, Pa., 1987

**M.D.:** The Ohio State University, Columbus, Ohio, 1991

**Specialty Training:** The Ohio State University, Columbus, Ohio

**Appointment:** 1997

**Specialty Interests:** Critical care, laparoscopy

**Research Interests:** Surgical outcomes, surgical infectious disease



Cook

**David E. Lindsey, M.D.**

Assistant Professor of Clinical Surgery

**B.S.:** The Ohio State University, Columbus, Ohio, 1972

**M.D.:** The Ohio State University, Columbus, Ohio, 1976

**Specialty Training:** Stanford University Hospital, Stanford, Calif.; University of California-Davis, Sacramento, Calif.

**Appointment:** 2007

**Specialty Interests:** Critical care, cardiovascular critical care, trauma



Lindsey

**Sidney F. Miller, M.D.**

Professor of Surgery; Director, Burn Center, The Ohio State University Medical Center

**B.A.:** Indiana University, Bloomington, Ind., 1965

**M.D.:** Indiana University School of Medicine, Indianapolis, Ind., 1968

**Specialty Training:** Miami Valley Hospital, Dayton, Ohio

**Appointment:** 2006

**Specialty Interests:** Burns

**Research Interests:** Wound healing



Miller

**Brian S. Porshinsky, M.D.**

Assistant Professor of Surgery; Assistant Director, Burn Center, The Ohio State University Medical Center

**B.A.:** The Ohio State University, Columbus, Ohio, 1991

**M.D.:** Medical College of Toledo, Toledo, Ohio, 1999

**Specialty Training:** Fellowship in surgical critical care, The Ohio State University Medical Center, Columbus, Ohio; fellowship in burn surgery and critical care, New York-Presbyterian Hospital/Weill Cornell Medical Center, New York, N.Y.; fellowship in plastic surgery, University of Illinois, Chicago, Ill.

**Appointment:** 2009

**Specialty Interests:** Acute burn care, fluid resuscitation after burns

**Research Interests:** Advanced technology applications in clinical surgery



Porshinsky

**Stanislaw P. Stawicki, M.D.**

Assistant Professor of Surgery

**B.A.:** University of Louisville, Louisville, Ky., 1997

**M.D.:** University of Louisville, Louisville, Ky., 2001

**Specialty Training:** Residency in general surgery, St. Luke's Hospital and Health Network, Temple University Clinical Campus, Bethlehem, Pa.; fellowship in traumatology and surgical critical care, University of Pennsylvania, Philadelphia, Pa.

**Appointment:** 2008

**Specialty Interests:** Trauma, surgical critical care, emergency surgery

**Research Interests:** Geriatric trauma, role of comorbidities in trauma



Stawicki

**Melissa L. Whitmill, M.D.**

Assistant Professor of Clinical Surgery

**B.S.:** Columbia Union College, Takoma Park, Md., 1995

**M.D.:** Wright State University, Dayton, Ohio, 2001

**Specialty Training:** Residency in general surgery, Wright State University, Dayton, Ohio; fellowship in surgical critical care, Henry Ford Hospital, Detroit, Mich.

**Appointment:** 2008

**Specialty Interests:** Trauma, surgical critical care, emergency surgery



Whitmill



## New Full-Time Faculty Appointments

**Paul R. Beery, II, M.D.**

Assistant Professor of Clinical Surgery  
November 2009

**Brian S. Porshinsky, M.D.**

Assistant Professor of Surgery  
July 2009

## Faculty Departures

**Yalaunda M. Thomas, M.D.**

Assistant Professor of Surgery  
Date of resignation: September, 2009  
Current appointment: Advocate Christ Medical Center, Oak Lawn, Ill.

## Resident Staff

**Daniel S. Eiferman, M.D.**

Surgical Critical Care Fellow  
**B.A.:** Northwestern University, Evanston, Il, 1999  
**M.D.:** University of Kentucky, Lexington, Ky, 2003

**David C. Evans, M.D.**

Surgical Critical Care Fellow  
**B.S.:** Duke University, Durham, N.C., 2002  
**M.D.:** Duke University, Durham, N.C., 2006

**James M. Howard, M.D.**

Surgical Critical Care Fellow  
**B.S.:** University of Kansas, Lawrence, Ks., 1999  
**M.D.:** University of Kansas, Kansas City, Ks., 2004

**Benjamin N. Morris, M.D.**

Surgical Critical Care Fellow  
**B.S.:** University of South Carolina, Columbia, S.C., 2000  
**M.D.:** University of South Carolina, Columbia, S.C., 2004

## Mission

The mission of the Division of Critical Care, Trauma, and Burn is to improve people's lives through innovations in research, education, and patient care in the areas of surgical critical care, trauma, burns, and emergency surgery.

## Research Programs

- Cytomegalovirus infections and bacterial sepsis.
- Missed billing opportunities in the surgical intensive care unit.
- Splenic and pancreaticoduodenal trauma.
- Screening for lower extremity deep venous thrombosis in trauma patients.
- The management of new onset atrial fibrillation in non-cardiac surgery ICU patients.
- Glycemic control in ICU patients.
- A review of hunting accidents.
- A survey on the use of digital rectal examination in trauma evaluation.
- Evaluation of blind bronchoalveolar lavage in the diagnosis of ventilator associated pneumonia.
- Assessment of renal function by equation.
- Impact of RAS scoring on use of sedation in the SICU.
- A Multi-Centered Study of the Efficacy of Soar: A Peer Support Program for Burn Survivors and Their Support Persons (University of Kentucky).
- Use of Fresh Frozen Plasma and the West Penn Formula vs Crystalloid and the Parkland Formula for Resuscitation of Major Burns; A Retrospective Review.
- Increasing Nurses' Knowledge and Ability to Teach about Burn Prevention Multicenter Study (University of Louisville).
- Evaluation of Early Glycemic Control in Critically Ill Burn Patients.
- Electrical Burns and the Development of Post Traumatic Stress Disorder and Associated Psychological Sequelae, A Retrospective Study.
- Toxic Epidermal Necrolysis and SCORTEN – An Ohio State University Medical Center Experience.
- Using Computer Based Learning as a Method of Establishing Competency in the Care of High Risk Low Volume Nursing Care.
- Recognition and Treatment of Alcohol Withdrawal Syndrome in Burn Patients: Impact on Nursing Care and Patient Outcomes Using a New Clinical Guideline.
- Disseminating Organizational Screening and Brief Interventional Services (DO-SBIS). Screening of alcohol usage and brief intervention in the acute care hospital, makes any impact on further usage.
- Safe Signals: Burn Teaching High Functioning Young Adults with ASD about Community Safety Behaviors.
- Prospective randomized placebo trial of pregabalin in the control of neuropathic pain in burn patients.
- The implementation of a burn prevention education module for patients with autism.

- The incidence and implication of elevated HgbA1C in burn patients.
- Use of IO devices in US Burn Centers.
- Brain markers and advance function MRI in the evaluation and treatment of electrical injured patients and its implementation for diagnosing PTSD.
- Review of foreign body ingestions in predominately prisoner population.
- Intensivist bedside ultrasonography (INBU): A prospective multi-institutional investigation of sonography in hemodynamic assessment of the critically ill patient.
- Seprafilm in open abdomens: A prospective evaluation of wound and adhesion characteristics in trauma damage control.
- The effects of anticoagulants on elderly head trauma patients.
- Incidence and risks associated with polypharmacy in geriatric trauma patients.
- Effects of beta blockers in older trauma patients.
- The use of dynamic f/Vt ratio in identification of failures of ventilatory liberation in critically ill patients with normal pre-liberation f/Vt ratios.
- Geriatrics polypharmacy risk assessment system: The comorbidity-polypharmacy score (CPS).
- Early versus late tracheostomy in burn inhalation injury patients.
- Comparison of pulmonary artery catheter and arterial waveform analysis in critically ill surgical patients.
- Application of financial analysis techniques to urine output and glycemic measurements in critically ill burn patients.
- Multi-institutional study of retained surgical foreign bodies.

## Accomplishments in Research

- Faculty members in the division published 42 scholarly articles, abstracts and chapters.
- Division members had 2 podium presentations at national meetings and 7 poster presentations at international and national meetings by division faculty and staff.
- The division broadened its clinical research meetings to include pharmacy, dietary and nursing.

## Active Research Grants

- \$360,000 grant for multi-institutional study titled Seprafilm in open abdomens: A prospective evaluation of wound and adhesion characteristics in trauma damage control (Stanislaw P. Stawicki, MD, Principal Investigator).
- \$125,000 funded by Pfizer for a Prospective, Single Center, Randomized, Double Blind, Placebo-Controlled Trial for the Evaluation of the Efficacy of 300mg or 600mg of Pregabalin Versus Placebo in the Reduction of Pain and Opioid Consumption in Patients with Partial or Full Thickness Burn Injuries.

- \$25,000 grant from Autism Speaks to teach burn prevention.
- \$6300 grant awarded to the Burn Program from The Ohio State University Medical Center Service Board in support of our Burn Survivor Family Camp.

## Clinical Programs

- Surgical critical care, trauma, burn, and emergency surgery services.

## Accomplishments in Clinical Care

- The American College of Surgeons has reverified The Ohio State University Medical Center as a 'Level I' trauma center in July 2009, denoting it as a regional resource to care for the most critically ill and injured patients.
- The Level I verification follows a comprehensive review of the Medical Center's practices and policies related to providing optimal care for critically ill and injured patients. The review, conducted by trauma surgeons associated with the American College of Surgeons, takes place every three years. OSU Medical Center has held a Level I designation for 19 years and was one of the first hospitals to receive the designation after the verification program started in 1987.
- A Level I trauma center must possess advanced diagnostic and treatment capabilities, including cardiopulmonary bypass, nuclear scanning and neuroradiology. The center also should have a leadership role in education, research and patient care.
- The OSU Medical Center is widely recognized for its expertise in the care of trauma patients and treats patients from throughout Ohio. It also has the only emergency department in central Ohio with hyperbaric medicine facilities and on-site physicians in more than 40 medical specialties.
- The division assumed the care of the majority of emergency general surgery patients.
- The division developed a number of new patient care guidelines and protocols including a massive transfusion protocol and a cervical spine clearance protocol.

## Clinical Statistics

OR Procedures	1,289
Outpatient Visits	2,827
Admissions	1,759
Patient Days	11,052
Average Length of Stay (Days)	6.28

## Accomplishments in Education

- Completion of the surgical critical care fellowships by Dr. Daniel Eiferman, Dr. David Evans, Dr. James Howard, and Dr. Benjamin Morris.
- Dr. Paul Beery was voted the Department of Emergency Medicine's Outstanding Contribution Award by their residents.
- Rebecca Coffey, RN, CNP, received the 2009 Clinical Excellence Award from the OSUMC.
- Dr. David Evans received First Place - Clinical Science, American College of Surgeons Ohio Chapter Resident Research Forum, Columbus, Ohio, May 7, 2010.
- Dr. Stanislaw Stawicki was a co-recipient of the Third Place at the Poster Competition, the 2009 American College of Physicians – Arizona Chapter Scientific Meeting for the presentation titled Cardiac Doppler Examinations of E, E', A, and A' Waves: Evaluating Echographic Measurement Biases Between Cardiologists and Non-Cardiologist Intensivists, Tucson, Arizona, September 26-27, 2009.
- Ann Marie Smith, PhD, RN, CRRN, ANP is the recipient of the Excellence in Community Health Education Team Award from the OSUMC, Columbus, Ohio, November 4, 2009.

## Community Outreach Programs

- Trauma injury prevention program.
- Burn outreach program.
- Trauma outreach program.
- Local Heroes Day.

## Accomplishments in Community Outreach

- The Third Annual OSU Burn Center Family Burn Camp, under the direction of Dr. Sidney Miller, was held on August 14-16, 2009 at Camp Joy in Clarksville, Ohio. This camp brings together former burn patients and their families for a weekend of camping and team building.

- The Spirit of Safety Days at Hilliard's 1st Annual Community Safety Days, in Hilliard was held on May 15, 2010. Members of our burn team-Rebecca Coffey, Ann Smith, John Dahman, Sidney Miller, and Kristen Calvitti- participated in this outreach event by setting up a booth for burn prevention education and trauma.
- The ThinkFirst Program grew immensely this year and additional speakers were recruited. Central Ohio ThinkFirst Chapter presented 171 programs between 7/1/09-6/30/10, reaching 9,614 people. We continued these collaborative partnerships and served on the many community-wide committees including:
  - 4H CarTeens
  - Columbus Police Department
  - Franklin County 4H Youth Development
  - Franklin County Juvenile Court
  - Franklin County Safe Communities
  - Franklin County Sheriff's Department
  - Franklin County Teen Safety Council
  - MADD Franklin County
  - SafeKids Central Ohio
  - SafeCommunities
  - The Ohio State University Extension Office
  - The Columbus Health Department
  - Worthington Police
  - Voices In Prevention (VIP's)-4
  - Mayor's Court: Upper Arlington, Dublin, and New Albany Juvenile Courts
  - Various K-12 schools and OSU
  - Central Ohio Trauma System (COTS)
  - Fatality Review Board
  - Columbus Area Pedestrian Safety Committee (CAPS)
  - Columbus Bicycle Safety Coalition
  - Mid-Ohio Regional Planning Commission (MORPC)
  - Bloom School of Driving Dynamix
  - Columbus Housing Partnership
  - Ohio Injury Prevention Partnership (OIPP)
- Many members of the division gave talks on trauma and burn topics to EMS providers, staff of outside hospitals and other care providers throughout the state of Ohio.

## Publications

**Chaudhry Z, Sammet S, Coffey R, Crockett A, Yuh W, Miller S.** Assessing the Safety and Compatibility of Silver-based Wound Dressings in a Magnetic Resonance Environment. *Burns*, 2009; 35(8):1080-1085.

**Cook CH.** Cytomegalovirus reactivation and mortality during critical illness: a \$64,000 question. *Critical Care Medicine* 2009; 37(8):2475-6.

**Evans DC, Doraiswamy VA, Prosciak MP, Silviera M, Seamon MJ, Funes VR, Cipolla J, Wang CF, Kavuturu S, Torigian DA, Cook CH, Lindsey DE, Steinberg SM, Stawicki SP.** Complications associated with pulmonary artery catheters: A comprehensive clinical review. *Scandinavian Journal of Surgery* 2009; 98:199-208.

**Forster MR, Trgovcich J, Zimmerman PD, Chang A, Miller C, Cook CH.** Antiviral Prevention of Sepsis Induced Cytomegalovirus Reactivation. *Antiviral Research* 2010; 85:496-503.

**Forster MR, Zimmerman PD, Trgovcich J, Cook CH.** Optimal ganciclovir prophylaxis strategies to prevent cytomegalovirus reactivation during bacterial sepsis. *Surgical Infections* 2009; 10(2):221.

**Franz RW, Goodwin RB, Beery PR II, Hari JK, Hartman JF, Wright ML.** Postdischarge outcomes of blunt cerebrovascular injuries. *Vasc Endovascular Surg* 2010; 44(3):198-211.

**Gerlach AT, Dasta JF, Steinberg SM, Martin LC, Cook CH.** A new dosing protocol reduces dexmedetomidine- associated hypotension in critically ill surgical patients. *Journal of Critical Care* 2009; 24(4):568-574.

**Gerlach AT, Murphy CV, Stawicki SP, Cook CH.** Modification of Diet in Renal Disease, Modified Cockcroft-Gault and 24-hour Urine Formulas are Poor predictors of Aminoglycosides in Critically Ill Surgical Patients. *Pharmacotherapy* 2009; 29:193e-194e.

**Goodwin RB, Beery PR, Dorbish RJ, et al.** Computed Tomographic Angiography vs. Conventional Angiography for the Diagnosis of Blunt Cerebrovascular Injury in Trauma Patients. *J Trauma* 2009; 67(5): 1046-1050.

**Hendershot KM, Bollins JP, Armen SB, Thomas YM, Steinberg SM, Cook CH.** Missed surgical intensive care unit billing: potential financial impact of 24/7 faculty presence. *J Trauma.* 2009, 67(1):196-201.

**Pleva MR, Mirtallo JM, Steinberg SM.** Hyperglycemic events in non-intensive care unit patients receiving parenteral nutrition. *Nutr Clin Pract* 2009; 24: 626-34.

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**Stawicki DP, Braslow BM, Panebianco NL, Kirkpatrick JN, Gracias VH, Hayden GE, Dean AJ.** Intensivist Use of Hand-carried Ultrasound to Measure Inferior Vena Cava Collapsibility in Estimating Intravascular Volume Status. *Journal of the American College of Surgeons* 2009; 209(1):55-61.

**Stawicki SP, Guarnaschelli JJ, Dzenitis AJ.** Cervical Disc Disease in Geriatric Patients: A Comparison Study. *European Journal of General Medicine* 2009; 6(3):140-143.

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**Stawicki SP, Goyal M, Sarani B.** High-frequency oscillatory ventilation (HFOV) and airway pressure release ventilation (APRV): a practical guide. *J Intensive Care Med* 2009; 24(4):215-29.

**Stawicki SP, Lindsey DE.** Trauma Corner – Missed traumatic injuries: A synopsis. *OPUS 12 Scientist* 2009; 3(2):35-43.

**Stawicki SP, Holmes JH, Kallan MJ, Nance ML.** Fatal child cervical spine injuries in motor vehicle collisions: Analysis using unique linked national datasets. *Injury* 2009; 40(8):864-7.

**Stawicki SP, Schuster D, Liu JF, Kamal J, Erdal S, Gerlach AT, Whitmill ML, Lindsey DE, Thomas YM, Murphy C, Steinberg SM, Cook CH.** Introducing the glucogram: Description of a novel technique to quantify clinical significance of acute hyperglycemic events. *OPUS 12 Scientist* 2009; 3:2-5.

**Steinberg SM.** Rev. of “The “off-label” role of recombinant factor VIIa in surgery: is the problem deficient evidence or defective concept?” *J Am Coll Surg* 2009; 209(5):659-67. SRGS Connect: What You Should Know [serial online]. American College of Surgeons, Chicago, March 2010.

**Steinberg SM.** Rev. of “The relevance of transition zones on computed tomography in the management of small bowel obstruction.” *Surgery* 2010; 147(3):373-7. SRGS Connect: What You Should Know [serial online]. American College of Surgeons, Chicago, May 2010.



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**Thomas A, Forster M, Zimmerman P, Wing B, Trgovcich J, Bergdall VK, Cook CH.** Occult cytomegalovirus in vivarium-housed mice. *Journal of the American Association for Laboratory Animal Science* 2009; 48(5):535.

**Wang CF, Cook CH, Whitmill ML, Thomas YM, Lindsey DE, Steinberg SM, Stawicki SP.** Risk factors for retained surgical foreign bodies: a meta-analysis. *OPUS 12 Scientist* 2009; 3(2):21-27.

**Yeager S.** Detraumatizing nurse practitioner orientation. *Jour of Trauma Nsg* 2010; 17(2)85-101.

**Yeager S.** Acute Care Nurse Practitioners. *Jour of Nurs Prac* 2010; 6(5):396.

## Abstracts

**Adams RC, Gunter OL, Wisler JR, Peterson L, Whitmill ML, Cipolla J, Hoey BA, Stehly C, Steinberg SM, Cook CH, Stawicki SP.** Dynamic F/Vt Ratio Identifies Liberation Failures in Patients On Prolonged Mechanical Ventilation And Normal Pre-Liberation F/Vt Values. *Am. J. Respir. Crit. Care Med.* 2010; 181:A3032.

**Gerlach AT, Murphy CV, Stawicki SP, Cook CH.** Risk factors for aminoglycoside induced kidney injury in surgical ICU patients. *Critical Care Medicine* 2009; 37(12):A408.

**Gerlach AT, Murphy CV, Thomas S, Pourzanjani L, Stawicki SP, Steinberg SM, Whitmill ML, Cook CH.** Does Withholding Early Intravenous Fat Emulsion from Parenteral Nutrition Reduce Infections during Critical Illness? *Surg Infect* 2010; 11:229.

**Howard H, Gerckens J, Wang C, Jarvis A, Porshinsky B, Cook CH, Whitmill ML, Lindsey DE, Steinberg SM, Stawicki SP.** Correlation of cardiac output as measured by arterial waveform analysis versus continuous cardiac output pulmonary artery catheter. *Critical Care Medicine* 2009; 37(12):A94.

**Kincaid M, Thomas A, Zimmerman P, Klenerman P, Bergdall V, Hickman-Davis J, Trgovcich J, Cook CH.** Development of CD8 T-memory inflation after cytomegalovirus infection determined by initial viral burden. *J. Immunol.* 2010; 184(1\_MeetingAbstracts): 39.28.

**Stawicki SP, Schuster D, Liu JF, Kamal J, Erdal S, Whitmill ML, Lindsey DE, Thomas YM, Steinberg SM, Cook CH.** The Use of Momentum and Stochastic Indicators to Correlate Acute Glucose Spikes with Clinical Events: A Novel Method of Examining Glycemic Variability in Chronic ICU Patients. *Southern Medical Journal* 2009; 102(12):E13.

**Stawicki SP, Evans DC, Christy J, Gerlach AT, Jarvis A, Whitmill ML, Lindsey DE, Cook CH, Rhoades P, Steinberg SM.** Pelvic fractures and antiplatelet agent use: why should we care? *J Surg Res* 2010; 158(2):411.

**Stawicki SP, Schuster D, Liu JF, Kamal J, Erdal S, Gerlach AT, Whitmill ML, Lindsey DE, Thomas YM, Murphy C, Steinberg SM, Cook CH.** The glucogram: a new quantitative tool for glycemic analysis in the surgical intensive care unit. *J Surg Res* 2010; 158(2):378.

## Book Chapters

**Braslow BM, Stawicki SP.** What is abdominal compartment syndrome and how should I manage it? In: Deutschman CS, Fleisher LA, Neligan PJ (eds). *Evidence-Based Practice of Critical Care*. Philadelphia, PA: Elsevier, 2009; 81:978.

**Yeager S.** Thoracentesis (Perform). In: Weigand DJ (ed). *AACN's Procedure Manual for Critical Care*. 6th ed. Philadelphia, PA: Elsevier, 2010; 206-218.

**Yeager S.** Thoracentesis (Assist). In: Weigand DJ (ed). *AACN's Procedure Manual for Critical Care*. 6th ed. Philadelphia, PA: Elsevier, 2010; 219-224.

## International Presentations

**Miller SF, Luedke S, Coffey R.** Electrical Burn and the Development of Post Traumatic Stress Disorder and Associated Psychological Sequelae, A Retrospective Study. 15th Meeting of The International Society for Burn Injuries, Istanbul, Turkey, June 21-25, 2010.

**Miller SF, Parks J, Harper C, Coffey R.** (Poster). Creating Hand Gloves Using Silver Silicone Foam Dressing: The Parks-Harper Glove. 15th Meeting of The International Society for Burn Injuries, Istanbul, Turkey, June 21-25, 2010.

**Miller SF, Murphy C, Coffey R.** Intraosseous Access Use at Burn Centers. 15th Meeting of The International Society for Burn Injuries, Istanbul, Turkey, June 21-25, 2010.

## National Presentations

**Coffey R, Linscott P, Calvitti K, Murphy C, Miller SF.** (Poster Presentation). Cleansing the Burn Patient. American Burn Association Annual Meeting, Boston, Mass, March 9-12, 2010.

**Cook CH.** Development of CD8 T-memory inflation after cytomegalovirus infection determined by initial viral burden. Poster AAI, Baltimore, MD, May 8, 2010.

**Cook CH.** Invited lecturer. Cytomegalovirus in animal sepsis models. CMV in Immunocompetent Patients Symposium, Infectious Disease Society of America (IDSA), Philadelphia, PA, October 30, 2009.

**Cook CH.** Session Moderator. CMV in Immunocompetent Patients Symposium, Infectious Disease Society of America (IDSA), Philadelphia, PA, October 30, 2009.

**Dahman J, Coffey R, Miller SF.** New Negative Pressure Dressing. Great Lakes Burn Study Group, Fairport, New York, September 17-18, 2009.

**Doraiswamy VA, Stawicki SP, Kirkpatrick JN, Hayden GE, Gracias VH, Dean AJ.** (Poster Presentation). Cardiac Doppler Examinations of E, E', A, and A' Waves: Evaluating Echographic Measurement Biases Between Cardiologists and Non-Cardiologist Intensivists. The 2009 Arizona Scientific Chapter Meeting of the American College of Physicians, Third Place Winner-Scientific Poster Competition, Tucson, Arizona, September 26-27, 2009.

**Evans DC, SP Stawicki MD, DE Lindsey MD, YM Thomas MD, ML Whitmill MD, SM Steinberg MD, CH Cook MD.** (Oral presentation). Antibiotic stewardship does not improve mortality for ventilator-associated pneumonia. EAST Annual Scientific Meeting, Phoenix, Arizona, January 20, 2010.

**Evans DC.** (Podcast). Antibiotic stewardship does not improve mortality for ventilator-associated pneumonia. Available as presentation #10 of the Alexander Competition, EAST Annual Scientific Meeting, Phoenix, Arizona, January 20, 2010. <http://www.east.org/Portal/meeting/Podcasts/tabid/257/Default.aspx>

**Gerlach AT, Stawicki SP, Cook CH.** (Poster Presentation). Modification of diet in renal disease, modified Crockoft-Gault and 24-hour urine formulas are poor predictors of aminoglycoside elimination in critically ill surgical patients. The 30th Annual ACCP Meeting, Anaheim, California, October 20, 2009.

**Gerlach AT, Murphy CV, Stawicki SP, Cook CH.** (Poster presentation). Risk Factors for Aminoglycoside Induced Acute Kidney Injury in Surgical ICU patients. The Society of Critical Care Medicine 39th Critical Care Congress, Miami, Florida, January 10-12, 2010.

**Howard JM, Cook CH, Gerckens J, Wang CF, Jarvis AM, Porshinsky B, Whitmill ML, Bahner DP, Lindsey DE, Steinberg SM, Stawicki SP.** (Poster Presentation). Correlation of cardiac output as measured by arterial waveform analysis versus continuous cardiac output pulmonary artery catheter. The Society of Critical Care Medicine 39th Critical Care Congress, Miami, Florida, January 10-12, 2010.

**Kincaid MY, Coffey R, Murphy C, Miller SF.** (Podium Presentation). Comparison of Two Burn Resuscitation Formulas: Fresh Frozen Plasma (FFP) Based Vs The Parkland Formula, A Single- Center Review. American Burn Association Annual Meeting, Boston, Mass, March 9-12, 2010.

**Parks J, Harper C, Coffey R, Miller SF.** Creating Glove Dressings with Silver Polyurethane Foam Dressing. Great Lakes Burn Study Group, Fairport, New York, September 17-18, 2009.

**Reichert E, Gerlach AT, Murphy C, Lindsey DE, Stawicki SP, Steinberg SM, Thomas YM, Whitmill ML, Cook CH.** (Poster presentation). A matter of dose? Thromboembolic Complications after Recombinant Factor VIIa Administration in Trauma Patients. The Annual AAST Meeting Pittsburgh, Pennsylvania, October 1, 2009.

**Saha S, Porshinsky B, Coffey R, Miller SF.** Toxic Epidermal Necrolysis Syndrome and SCORTEN – The Ohio State University Medical Center Experience. Great Lakes Burn Study Group, Fairport, New York, September 17-18, 2009.

**Stawicki SP.** (Poster presentation). The use of momentum and stochastic indicators to correlate acute glucose spikes with clinical events: A novel method of examining glycemic variability in chronic ICU patients. The Southern Medical Association Annual Scientific Assembly Dallas, Texas, December 3-5, 2009.

**Stawicki SP, Evans DC, Christy JM, Gerlach AT, Jarvis AM, Whitmill ML, Lindsey DE, Cook CH, Rhoades P, Steinberg SM.** (Podium presentation). Pelvic Fractures and Antiplatelet Agent Use: Why Should We Care? The 5th Annual Academic Surgical Congress, San Antonio, Texas, February 3-5, 2010.

**Stawicki SP, Schuster D, Liu JF, Kamal J, Erdal S, Gerlach AT, Whitmill ML, Lindsey DE, Thomas YM, Murphy CV, Steinberg SM, Cook CH.** (Podium presentation). The Glucogram: A New Quantitative Tool for Glycemic Analysis in the Surgical Intensive Care Unit. The 5th Annual Academic Surgical Congress San Antonio, Texas, February 3-5, 2010.

**Yeager S.** Moderator. Implementing therapeutics at the bedside: Putting theory into practice. NeuroCritical Care Society, New Orleans, Louisiana, November 13, 2009.

**Yeager S.** Professor rounds. NeuroCritical Care Society, New Orleans, Louisiana, November 13, 2009.

## Miscellaneous Presentations

**Betz S.** Trauma 101. Capital University Senior Nursing Students, Columbus, Ohio, March 19, 2010.

**Betz S.** Trauma Triage. North Union Fire Department, Marietta, Ohio, March 10, 2010.

**Betz S.** Trauma 101 for EMS. Ross County EMS, Chillicothe, Ohio, April 17, 2010.

**Coffey R.** Advanced Trauma Tactics – Burn Care. OSUMC for ED and trauma nurses from local hospital, Columbus, Ohio, December 10, 2009.

**Coffey R.** Overview of the Burn Patient, CNS/NP graduate lecture for Ohio State Nursing Students, OSUMC College of Nursing, Columbus, Ohio, July 21, 2009.

**Coffey R.** Crash and Burn. Coshocton Ohio Paramedic Education, Coshocton EMT education, Coshocton, Ohio, September 10, 2009.

**Coffey R.** Initial Care of the Burn Patient. Hocking Valley Community Hospital ED RN, Hocking Valley Community Hospital, Hocking Valley, Ohio, September 23, 2009.

**Coffey R.** Crash and Burn. Memorial Hospital of Union County, Ohio Paramedic Education, Union County Ohio EMS/Paramedic Education, Marysville, Ohio, September 24, 2009.

**Coffey R.** Psychological and Physical Pain in the Burn Patient. Burn Nursing Staff, The Ohio State University Medical Center, Columbus, Ohio, September 24, 2009.

**Coffey R.** Medic Refresher Course Update on Burns. Delaware Fire Department, Delaware, Ohio, October 8, 2009.

**Coffey R.** Outpatient Burn Care. The Ohio State University Rehabilitation Staff, Columbus, Ohio, October 13, 2009.

**Coffey R.** Crash and Burn. Prairie Township, Ohio Paramedic Education, Prairie Township, Ohio, November 13, 2009.

**Coffey R.** Emergency Services Symposium. AT Genesis Health System ED Staff, EMS, Zanesville, Ohio, November 17, 2009

**Coffey R.** Crash and Burn. Norwich Township-Ohio Paramedic Education, Hilliard, Ohio, December 3, 2009.

**Coffey R.** Crash and Burn. Worthington Fire Department, Worthington, Ohio, February 1, 2010.

**Coffey R.** Crash and Burn. Berger Emergency Medical Services, Circleville, Ohio, March 18, 2010.

**Coffey R.** Trauma Tactics. Grant Medical Center, ED Nurses and Critical Care Nurses, Columbus, Ohio, Feb 11, 2010 and April 14, 2010.

**Coffey R, Kulisek J, Chipps E.** Recognition and Treatment of Alcohol Withdrawal Syndrome and Patient Outcomes Using a New Clinical Guideline. Cleveland Clinic Research Seminar, Cleveland, Ohio, May 6, 2010.

**Coffey R, Kulisek J, Chipps E.** Recognition and Treatment of Alcohol Withdrawal Syndrome and Patient Outcomes Using a New Clinical Guideline. Nursing Research at The Ohio State University, Columbus, Ohio, April 6, 2010.

**Coffey R, Kulisek J, Chipps E.** Recognition and Treatment of Alcohol Withdrawal Syndrome and Patient Outcomes Using a New Clinical Guideline. Nursing Excellence Fair at The Ohio State University, Columbus, Ohio, May 4, 2010.

**Eiferman D, Howard J, Stawicki S, Evans D, Whitmill M, Beery P, Steinberg S, Lindsey D, Cook C.** Assessment and Reliability of Intravascular Volume Measurements in the Intensive Care Unit. Columbus Surgical Society, Columbus, Ohio, February 6, 2010.

**Evans DC.** Ventilator-associated pneumonia: results of a SICU quality improvement initiative. Presented at Central Ohio Trauma System Trauma Research Symposium, Columbus, Ohio, May 7, 2010.

**Evans DC.** Pre-injury polypharmacy as a predictor of outcomes in trauma patients. Presented at Ohio Chapter of the American College of Surgeons Resident Research Forum, Columbus, Ohio, May 7, 2010.

**Kulisek J, Coffey R, Chipps E.** (Poster presentation). Using Computer Based Learning as a Method of Establishing Competency in the Care of High Risk, Low Volume Nursing Care. Cleveland Clinic Nursing Research Conference, Cleveland, Ohio, May 6, 2010.

**Kulisek J, Coffey R, Chipps E.** (Poster presentation). Using Computer Based Learning as a Method of Establishing Competency in the Care of High Risk, Low Volume Nursing Care. Nursing Research at The Ohio State University, Columbus, Ohio, April 6, 2010.

**Kulisek J, Coffey R, Chipps E.** (Poster presentation). Using Computer Based Learning as a Method of Establishing Competency in the Care of High Risk, Low Volume Nursing Care. Nursing Excellence Fair at The Ohio State University, Columbus, Ohio, May 4, 2010.

**Lindsey DE.** Invited Lecturer. 2009 OSUMC: Current Concepts in Respiratory Care: Blunt & Penetrating Traumas to the Chest, The Ohio State University Medical Center, Columbus, Ohio, April 17, 2010.

**Miller SF.** Advanced Trauma Life Support Course, Columbus, Ohio, July 31, 2009.

**Miller SF.** Burns Seldom Seen. OSU Center for EMS, Nationwide Children's Hospital, and Medflight's Checking Vitals. Current Trends in Pediatric and Adult Emergency Care and Critical Airway Management Symposium, Columbus, Ohio, September 8-9, 2009.

**Miller SF.** Crash and Burn. EMS outreach. Adena Regional Medical Center, Chillicothe, Ohio, November 19, 2009.

**Miller SF.** Things That Go Boom, Local Heroes EMS Conference, Columbus, Ohio, April 23, 2010.

**Miller SF, Coffey R, Calvitti K, Smith A, Dahman J.** Burn Prevention Booth, Hilliard Safety Days, Hilliard, Ohio, May 15, 2010.

**Murphy C, Coffey R, Gerlach A, Cook CH, Miller SF.** (Poster Presentation). Analysis of Glycemic Control in Burn Injury Patients. American Burn Association Annual Meeting, Boston, Mass, March 9-12, 2010.

**Porshinsky BS.** Care of the Burn Patient. Surgical Grand Rounds, The Ohio State University, Columbus, Ohio, April 22, 2010.

**Porshinsky BS.** Crash and Burn. EMS outreach activity, Delaware, Ohio, July 28, 2009.

**Smith AM.** What it does and does it make a difference? Injury prevention and outreach through the Central Ohio ThinkFirst Chapter- The Brain Injury Association of Ohio 28th Annual Educational Conference, Double Tree Hotel, Worthington, Ohio, October 1, 2009.

**Stawicki SP.** Primary Assessment of Trauma Patient lecture. Spinal Injury skill station, Columbus Medical Society, Columbus, Ohio, July 9-10, 2009.

**Stawicki SP.** Geriatric Trauma Patient lecture. Pediatric Trauma Patient lecture; Spinal Injury skill station, Columbus Medical Society, Columbus, Ohio, October 17, 2009.

**Stewart T.** Chest Trauma / Trauma in pregnancy. Ross County EMS, Chillicothe, Ohio, April 18, 2010 and April 22, 2010.

**Stewart T.** Pregnancy and Trauma. Ross County EMS at ARMC, Chillicothe, Ohio, April 22, 2010.

**Stewart T.** Trauma Triage. Marion County EMS at Marion General, Marion, Ohio, May 19, 2010.

**Whitmill ML.** The Acute Abdomen. Mednet 21, The Ohio State University Medical Center, Columbus, Ohio, October 23, 2009.

**Yeager S.** Endpoints of Resuscitation. Trauma Tactics, Central Ohio Nurses, Columbus, Ohio, February 18, 2010 and June 17, 2010.

**Yeager S.** Traumatic Brain Injury. Trauma Tactics, Central Ohio Nurses, Columbus, Ohio, February 18, 2010 and June 17, 2010.

**Yeager S.** Nuts and Bolts of Traumatic Brain Injury. Worthington EMS Competency Day, Worthington, Ohio, February 1, 2010.

**Yeager S.** Nuts and Bolts of Hemorrhagic Brain Injury. Critical Care Symposium, Ohio University, Lancaster, Ohio, October 2, 2009.

**Yeager S.** Nursing: The Good, The Bad, and The Ugly, Keynote. Fairfield Medical Center, Lancaster, Ohio, October 27, 2009.

**Yeager S.** Rootin' Around, Keynote. The Ohio State University Medical Center Cardiac Conference, Columbus, Ohio, November 2, 2009.



# General and Gastrointestinal Surgery



**W. Scott Melvin, M.D.**

Chief, Division of General and Gastrointestinal Surgery  
Director, Center for Minimally Invasive Surgery

**T**he Division of General and Gastrointestinal Surgery is committed to excellence in education, training, research and clinical care in general surgery, foregut, and colorectal surgery. We strive to offer the newest and most cutting edge treatments. Our surgeons are leaders in their respective fields and we continue to recruit the best and brightest talent to expand our Division's ability to offer the best to our patients. We continue to make contributions to surgery in the fields of gastroesophageal reflux disease, endoluminal and minimally invasive surgery, bariatric surgery, surgical endoscopy, and the treatment of malignant disease of the gastrointestinal tract, including pancreatic, esophageal and gastric cancer.

This year our Division expanded the breadth of procedures offered to patients suffering from benign and malignant disease processes of the esophagus with the recruitment and hire of Dr. Kyle Perry. Dr. David Renton has also joined our team this year with a clinical practice focusing on minimally invasive gastrointestinal surgery at University Hospitals East. Drs. Perry and Renton, both fellowship trained and board-certified, bring additional specialty approaches to patients in need of advanced treatment options in gastrointestinal surgery.

Surgical education and the training of medical students, residents, fellows and physicians in practice is an integral piece of our Division's academic endeavors. We strive as group to cultivate those individuals with a passion for surgery, through one-on-one teaching opportunities, educational course series options, and hands-on instruction in clinical and laboratory settings. We are very proud of the accomplishments in this arena in 2009 – 2010, with a number of our faculties recognized at the Department, College and national levels for excellence in teaching endeavors. Our Divisional faculties were awarded the Department of Surgery Faculty Teaching Award, The Ohio State University College

of Medicine Distinguished Faculty Award, and an Association for Surgical Education's (ASE) Surgical Education Research Fellowship (SERF).

In basic and translational science research Chandan K. Sen, PhD, director of the Comprehensive Wound Center and vice chair for Research in the Department of Surgery, is the principal investigator of three active National Institutes of Health (NIH) research projects with total funding exceeding \$4.2 million. Dr. Sen is the Director of the Laboratory of Molecular Medicine and serves as the Deputy Director of the Davis Heart and Lung Research Institute and is the Associate Dean for Translational and Applied Research in the College of Medicine. Dr. Sen leads the Medical Center's Technology Commercialization and Industry Partnership programs. The primary focus of Dr. Sen's laboratory is to study tissue injury, repair, remodeling, and survival. Dr. Sen has been named as a permanent member of NIH's Surgery, Anesthesia and Trauma study section in 2009 and has presented 13 keynote addresses and plenary lectures on the subject during the year at thirteen national and international conferences. In 2009, Dr. Sen presented the Van Lierre lecture at the Robert Byrd Health Sciences Center of West Virginia University. He was the chief guest at the Health Science Center's 2009 annual research day and convocation. Dr. Sen is the Executive Director of the Comprehensive Wound Center (CWC), which combines patient care with research and education. The CWC serves over 1500 patient visits a month. The CWC funded its first clinical trial in 2006, and today there are six extramurally-funded trials that either have been completed or are in progress with Dr. Sen as the PI. At present, the CWC has over a dozen faculties from six different Colleges making it a truly interdisciplinary program. Dr. Sen also serves on the board of directors of the Wound Healing Society. Dr. Sen is the Editor-in-Chief of an international peer-reviewed journal, *Antioxidants & Redox Signaling* ([www.liebertpub.com/ars](http://www.liebertpub.com/ars)), which has an impact factor of 7.58 ranking number 1 in the field. Dr. Sen serves as the Associate Editor of the prestigious journal *Physiological Genomics*, a publication of the widely respected American Physiological Society. Dr. Sen is the Editor-In-Chief of *Advances in Wound Care* ([www.liebertpub.com](http://www.liebertpub.com)), the official yearbook of the Wound Healing Society. In addition, Dr. Sen serves on the editorial board of five other journals and as a peer reviewer of over 25 major journals. Dr. Sen is the program director of the Novel Clinical and Translational Methodologies and Pilot Studies programs of the Ohio State Center for Clinical and Translational Research (CCTS). The CCTS has been awarded a NIH CTSA grant of \$34.1 million. Dr. Sen also serves as a voting member of NIH's national CTSA Public Private Partnerships Steering Committee. In 2009, he was designated as NIH Champion of Change for The Ohio State University. Dr. Sen also serves as a faculty advisor on the Indian Gateway Project for the OSU Globalization Initiative and served as president of the 14th OCC World Congress.

Dr. Sashwati Roy, associate professor of surgery, is building a diabetic wound healing program in partnership with the teams of Drs. Sen, Gordillo, and Melvin. In particular, her program focuses on dead cell recognition and clearance from the chronic wound of diabetics. Dr. Roy is an expert in microarray analyses and data mining in functional genomics, as well as laser capture microdissection. Dr. Roy serves as the Director of the Laser Capture Microdissection Core Facility. She is the principal investigator of an active National Institutes of Health research project with funding exceeding \$1.2 million, and is the co-investigator on three wound healing projects. Dr. Roy is an adhoc reviewer, NIH Arthritis, Connective Tissue and Skin Study Section and a reviewer for NIH challenge grants. She has published seven papers in reputed journals during this academic year. In total, Dr. Roy has published

over 160 scholastic journal articles and book chapters. In addition, Dr. Roy serves as a peer reviewer of nearly 20 major journals. Dr. Roy is a member of the Signature Program Translational Science Curriculum Sub-Committee, and serves on the Awards Committee of the Wound Healing Society. She enjoys working with undergraduates, medical students, and residents interested in the basic/translational science of wound healing.

Dr. Savita Khanna was promoted to assistant professor in the Department of Surgery in July 2009. Dr. Khanna is building a brain injury and rescue laboratory. She has extensive experience in *in vitro* and *in vivo* studies related to mechanisms of neurodegeneration and interventional rescue. Within the first few months of her faculty appointment, Dr. Khanna received three competitive grants, a Research Investment Fund (RIF) award and an NIH-sponsored Clinical and Translational Science Award (CTSA) Pilot Award, and the Center for Clinical and Translational Science (CCTS) NCTMP Matching Dissemination Funds award. Dr. Khanna serves as the managing editor for the international peer-reviewed journal, *Antioxidants & Redox Signaling*, which has an impact factor of 7.581. She also serves as a peer reviewer for nine major journals. Dr. Khanna has published six papers in reputed journals over the past year. In total, Dr. Khanna has published over seventy-five journal articles, and she has presented her work at meetings and conferences both nationally and internationally. Dr. Khanna works with a highly-skilled team of collaborators and is building a successful laboratory and research program.

Dr. E. Christopher Ellison, the Robert M. Zollinger professor and chairman of Surgery, continues to serve as associate vice president for Health Sciences and vice dean of Clinical Affairs in the College of Medicine and as a director of the American Board of Surgery. Repeatedly recognized as one of the nation's top physicians, Dr. Ellison was listed again this year by Best Doctors in America. His book, co-authored with Dr. Thomas E. Williams, Jr. and Dr. Bhagwan Satiani, "*The Coming Shortage of Surgeons: Why They Are Disappearing and What That Means for Our Health*" was published in the September 2009 and is a quantitative analysis of the workforce in orthopedic and thoracic surgery, otolaryngology, obstetrics and gynecology, general surgery, neurosurgery, and urology. Dr. Ellison maintains an active clinical practice focusing on pancreatic and esophageal diseases, and he continues to serve as an outstanding teacher of medical students and residents.

W. Scott Melvin, MD, professor of surgery, is the chief of the Division, as well as the director of the Center for Minimally Invasive Surgery. Dr. Melvin's clinical practice focuses on advanced minimally invasive surgical treatments for gastroesophageal reflux disease and other esophageal disorders, as well as advanced hepatobiliary surgery. In addition to his leadership within the Medical Center Dr. Melvin is a member of a variety of local, national and international societies. He serves as the Second Vice President for the Society of American Gastrointestinal and Endoscopic Surgeons and is the Committee Chair of their Business Development Advisory Group. This year he was appointed to the Advisory Board in General Surgery of the American College of Surgeons as a representative for The American Board of Surgery. In 2010 Dr. Melvin was the recipient of The Ohio State University College of Medicine Distinguished Educator Award. This award is presented annually to a faculty member who has shown extraordinary commitment to teaching and the promotion of academic excellence. A five-time Surgery Faculty Teaching Award winner, twice acknowledged by medical students and three times by surgical residents, Dr. Melvin was a most deserving recipient.

Mark W. Arnold, MD, professor of clinical surgery, is the vice chair for Education in the Department of Surgery. Dr. Arnold serves as the Director of the General Surgery residency program, which continues to grow in prestige and volume. Under his direction, the program has grown to 55 residents, graduating five per year. In October 2009 the General Surgery Residency Program underwent a comprehensive review by Residency Review Committee of the Accreditation Council for Graduate Medical Education and was granted a 4 year accreditation extension. Dr. Arnold also participates as an instructor for the Colorectal Fellowship program. While participating in all levels of education, he maintains a busy clinical practice that focuses on treatment of colorectal diseases and disorders.

Alan Harzman, MD, assistant professor of clinical surgery, joined the Division in 2007 and has since built an extremely busy practice. His primary clinical focus is the treatment of colorectal diseases and disorders, offering advanced minimally invasive approaches for many. In addition to clinical duties, Dr. Harzman has quickly become a recognized educator for both residents and medical students alike. In 2009, Dr. Harzman was awarded an Association for Surgical Education's (ASE) Surgical Education Research Fellowship (SERF). A competitive program, he was the recipient of one of only 16 fellowships awarded nation-wide. The SERF program is a one year, home-site fellowship designed to equip investigators with the skills and knowledge needed to plan, implement and report research studies in the field of surgical education. We are extremely fortunate to have Dr. Harzman on our team and look forward the expansion of his mentoring role of medical students and residents in the field of surgical education.

Jeffrey Hazey, MD was promoted to associate professor of surgery in October 2009. Dr. Hazey continues to be a recognized national leader in areas of surgical endoscopy and NOTES. His clinical practice focuses on advanced therapeutic endoscopy, including ERCP, as well as advanced minimally invasive surgical procedures. Under his direction, 2009-2010 was the fourth year for the Fellowship in Advanced Therapeutic Endoscopy and Gastrointestinal Surgery. Dr. Hazey is a committed educator both within our Medical Center, training medical students, residents and practicing physicians in continuing medical education courses, and beyond where he participates in educational activities on an international and national level. Dr. Hazey is a member of six different committees within the Society of American Gastrointestinal Endoscopic Surgeons (SAGES), including the Flexible Endoscopy Committee and the Endolumenal Task Force. In addition to his national society participation, Dr. Hazey is a member of five hospital-based committees, including the appointment this year as an at-large member of the Department of Surgery Executive Committee. In his research endeavors, Dr. Hazey continues to be at the forefront of the Natural Orifice Translumenal Endoscopic Surgery (NOTES) movement, publishing the findings of the first US clinical NOTES trial in Surgical Endoscopy and its extension, entitled "Diagnostic Transgastric Endoscopic Peritoneoscopy: Extension of Initial Human Trial for Staging of Pancreatic Head Masses".

In September 2009, Syed Husain, MD, assistant professor of clinical surgery, received his Board Certification by the American Board of Colon and Rectal Surgery. Dr. Husain continues to grow his clinic practice, with a specialty focus on minimally invasive treatments for benign and malignant colon and rectal disease. On a national level, Dr. Husain was an invited faculty speaker on "Ischemic Colitis and Acute Hemorrhage" at the 96th Annual Clinical Congress of American College of Surgeons held

in Washington, DC and presented his research on “Posterior Pelvic Floor Dysfunction: A Comparison of Defecography, MRI and Anorectal Physiology” at the 2009 annual meeting of the American Society of Colon and Rectal Surgeons.

Andrei Manilchuk, MD, assistant professor of clinical surgery, continues to grow his clinical practice in general surgery. He has participated in various workshops in advanced surgical techniques for colon surgery and for abdominal wall reconstruction and continues to be a valuable resource for a variety of various surgical diseases. Dr. Manilchuk is a recognized teacher and educator of residents and medical students, and this year he was awarded the Department of Surgery Faculty Teaching Award. This award is bestowed by the surgery residents and fellows in recognition for excellence in teaching and dedication to surgical education.

Dean Mikami, MD, assistant professor of surgery, has been an active member of our Division since 2003. His clinical practice focuses on advanced minimally invasive surgical procedures specializing in laparoscopic bariatric surgery, minimally invasive approaches for hernia repair, and novel endoluminal therapies. Dr. Mikami is an active member of the surgical community on both a national and international level and served as an invited speaker at many venues throughout the year. He chaired an endoluminal therapy session at the 2010 SAGES meeting in Washington, DC and served as an invited lecturer at the American College of Surgeons and the American Society of Metabolic and Bariatric Surgery annual meetings. Dr. Mikami provided guest lectures in Paris and Versailles, France, as well as Sao Paulo, Brazil on evolving endoscopic procedures. In his research endeavors, Dr. Mikami is currently a Co-I on a multi-center, FDA trial entitled “Randomized controlled trial of StomaphyX versus sham for revisional surgery in post-Roux-en-Y patients to reduce regained weight”. The goal of the trial to prove efficacy of the StomaphyX procedure in reducing weight gain following primary weight loss surgeries, thus allowing improving insurance coverage for patients in need. He has published multiple papers and abstracts and is featured on SAGES Top 21 Videos “Minimally Invasive Procedures Every Practicing Surgeon Should Know”. Dr. Mikami is also an editor of the text book, *“Evidence Based Minimally Invasive Surgery”*, which should be out in the near future.

Peter Muscarella, MD, associate professor of surgery, serves as the director of the Surgical Clerkship for medical students. In this role, he mentors medical students as they pursue careers in the surgical fields. Dr. Muscarella also serves as the assistant program director for the General Surgery Residency Program participants. This past year, in conjunction with the Center for Minimally Invasive Surgery, Dr. Muscarella helped to implement the American College of Surgeon’s (ACS) Surgical Skills Curriculum for residents. The expanded hands-on curriculum will help our surgeons in training achieve a more advanced skill level at a quicker pace through the use of simulation and skills labs. His research focuses on gastrointestinal disorders, and clinically, Dr. Muscarella’s practice focuses on surgical disorders of the pancreas.

Vimal Narula, MD was promoted to assistant professor of clinical surgery during this academic year. He continues to expand his clinical practice with a focus on advanced therapeutic endoscopy, including ERCP, and minimally invasive surgical treatments for common general surgery procedures. Dr. Narula is an active member of the educational team, and serves as an instructor for continuing

medical education courses offered through the Center for Minimally Invasive Surgery and is a valued instructor of the ACS Surgical Skills Curriculum for the general surgery residents. Continuing to participate in the expanding field of NOTES research, this year Dr. Narula is participating in an investigator initiated study looking at the safety and feasibility of transvaginal cholecystectomy. This study is a stepping stone to a larger, multi-center trial sponsored by Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR).

During the 2009-2010 academic years Bradley Needleman, MD was promoted to associate professor of clinical surgery. He also continues to serve in his role as the Director of Bariatric Surgery. Surgical volumes for bariatric surgery continue to grow and this year he and Dr. Mikami will combine to perform more than 300 primary bariatric surgery operations. In May 2010, Dr. Needleman traveled to China where he participated in the 5th Chinese Congress on Perioperative Medicine in Integrated Traditional and Western Medicine. During his visit to Shanghai and Hangzhou, he participated as a guest lecturer and performed surgical cases for a live audience at the Wenshou Medical College. Dr. Needleman cultivated many professional acquaintances during his time in China, which we hope as a Division to help sustain with future trips to the region for teaching and research endeavors.

Kyle Perry, MD joined our Division in July 2009 as an assistant professor of surgery. Prior to joining our practice, Dr. Perry completed a general surgery residency at Rush University Medical Center/Cook County Hospital Integrated Surgical Resident Program in Chicago, Illinois. His specialty training was obtained at the Oregon Health & Science University (OHSU) in Portland, Oregon, where he completed a two year fellowship in Minimally Invasive Surgery and received a graduate degree from the OHSU Human Investigations Program. Dr. Perry's clinical practice focuses on the treatment of benign and malignant esophageal and gastric disorders including esophageal and gastric cancer, Barrett's esophagus and minimally invasive approaches to gastroesophageal reflux disease (GERD). His current research endeavors include funding from SAGES for a project entitled "Identifying the Optimal Duration of Gastric Ischemic Conditioning to Improve Gastroesophageal Anastomotic Wound Healing". We are happy to have Dr. Perry on our team and look forward to continued expansion of his practice in the years to come.

Dr. David Renton, assistant professor of clinical surgery, became a member of our team in August 2009. Dr. Renton completed his general surgery residency at the University of Alabama – Birmingham, followed by a year of specialty training at The Ohio State University, where he completed a minimally invasive surgical fellowship. Following his training, Dr. Renton joined the faculty at the University of South Carolina, where he held the title of Director of Minimally Invasive Surgery. His clinical practice at University Hospital East focuses on minimally invasive treatment options for a variety of gastrointestinal surgical operations. Dr. Renton is also one of few surgeons in central Ohio to offer "single-incision" options to patients for such common operations as gall bladder removal, hernia repair, and some colorectal procedures. His dedication and interest in surgical education is also an asset to our team, and Dr. Renton is working with the Center for Minimally Invasive Surgery to establish a Surgical Skills Center for our rotating medical students and residents.

Richard Schlanger, MD, associate professor of clinical surgery, serves as the Chief of Surgical Services at University Hospitals East and the Clinical Director of the Center of Advanced Wound Manage-



ment. He maintains an extremely busy general surgery clinical practice, with a specialty focus on wound healing. Dr. Schlanger is recognized leader in clinical wound healing research and is frequently an invited speaker on the national and international level. Dr. Schlanger collaborates with our Division's basic science research program, which specializes in wound care research. Spring of 2010 brought the opening of CarePoint at Gahanna, an extension of the Comprehensive Wound Center, of which Dr. Schlanger will oversee quality and pathway compliance.

### **Minimally Invasive Surgery**

The Center for Minimally Invasive Surgery (CMIS) is a multidisciplinary center dedicated to the achievement of excellence in patient care, clinical training, research and outcomes studies pertaining to the techniques and technology of minimally invasive surgery. The Center strives to expand the ever changing field of surgery and 2009-2010 brought continued expansion of our educational and research endeavors.

### **Research**

At The Ohio State University's Center for Minimally Invasive Surgery (OSU-CMIS), surgeons and researchers are continuously pushing the boundaries of current surgical techniques. Over the past few years, a completely new minimally invasive surgical technique has emerged, pioneered by efforts at The Ohio State University. Natural Orifice Transluminal Endoscopic Surgery, or NOTES, is the process of performing surgery through naturally existing orifices, thus eliminating the need for external incisions. It is a trend that has been gaining interest in the surgical community over the last several years. We continue to focus our efforts on new developments in technology and techniques for NOTES, with the hope that someday common surgical procedures can be totally incisionless.

The Center for Minimally Invasive Surgery (CMIS) at The Ohio State University remains in the forefront of NOTES related research. In addition to our, "Transgastric Peritoneoscopy for Evaluation of the Abdominal Wall to Direct Laparoscopic Trocar Placement" and "Diagnostic Transluminal Endoscopic Peritoneoscopy" (Hazey et al. 2008) studies, OSUMC has been selected as a site in a NOTES cholecystectomy multicenter clinical trial sponsored by the Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR). NOSCAR, a non-profit organization formed in July 2005 to further NOTES research, is supported by the American Society for Gastrointestinal Endoscopy (ASGE) and the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES).

The field of obesity surgery and related disease processes also continues to be a focus for our researchers. Metabolic disorders, such as diabetes, are some of the fastest growing complications that arise from obesity. Treatment of obesity with surgical intervention often leads to resolution of such metabolic disorders. Dara Schuster, MD, who holds a joint appointment with the Division of Endocrinology, Diabetes and Metabolism and the Division of General and Gastrointestinal Surgery, received a \$525,451 grant from Covidien for a project entitled: "Metabolic Surgery vs. Medical Management for Resolution of Type II Diabetes: A Prospective Group Match Study." As part of this study, morbidly obese patients with diabetes who choose to undergo Roux-en-Y gastric bypass surgery or who choose best medical management are followed for two years to ascertain whether

diabetes improves or resolves as a result of surgical or medical intervention. This study will enroll 120 subjects: 60 in the surgical intervention arm and 60 in the best medical management arm.

Finally, Dr. Kyle Perry received a \$30,000 grant from the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES). Dr. Perry's project is entitled: "Identifying the optimal duration of gastric ischemic conditioning to improve gastroesophageal anastomotic wound healing." This study will investigate the optimal duration of gastric ischemic conditioning prior to esophagectomy as a treatment for esophageal adenocarcinoma. The incidence of esophageal adenocarcinoma has increased 350% since 1970, a rate outpacing all other cancers. It is hoped that this study will lead to a reduction in complications endemic to esophagectomy and an improvement in patients' quality of life.

### **Education**

This year, CMIS focused a large portion of its educational mission on surgical resident education in addition to continuing medical education (CME) and non-CME courses for practicing surgeons. In accordance with new guidelines from the American College of Surgeons (ACS) dictating skills training for residents, CMIS along with the Department of Surgery residency training program began to offer weekly surgical skills labs based on various modules included in the ACS surgical skills curriculum for residents. Each week, different levels of post graduate year (PGY) learners attend a two-hour skills lab in either an animate, inanimate or didactic setting taught by an attending surgeon or expert in the area. Sessions vary in topic based on the training level of the learner. Attendance at weekly skills labs are mandatory and have been very well received overall. In addition to these weekly skills labs, approximately 10 CME and non-CME courses were held in 2009-2010 with over 170 participants including practicing surgeons, allied health professionals, fellows and residents. Course topics ranged from minimally invasive hernia, colon and urologic surgery to newer topics in surgery such as single incision laparoscopic surgery and endoluminal treatments for GERD and weight loss.

We saw continued success of the OSU Robotic Surgery Training Center in 2009-2010. CMIS added a new Allied Health Robotics Training program to its course offerings. Under the direction of Lynda Jayjohn, nurse manager for robotic surgery, beginner and intermediate/advanced courses for perioperative team members working in a robotic operating room. Programs are tailored to fit the needs of each program that attends. Key course topics include troubleshooting, flow management, OR efficiency, staffing needs/management and marketing. Over 47 participants have attended these training programs. In addition to our allied health programs, over sixty *da Vinci* surgeon training programs were held at Ohio State during this time with a total of 63 participants from various states around the country. Training programs held here include training in techniques for general, gynecologic, urologic and cardiothoracic robotic surgery.

Our minimally invasive surgery training program, which is a one-year, faculty level dedicated experience in advanced laparoscopic surgery, remains a well sought after position. This year we welcomed two new clinical assistant professors, Dr. Eric Volckmann and Dr. Clinton Hall. Dr. Volckmann had a very busy clinical year, completing more than 400 advanced laparoscopic surgeries and endoscopies. He participated in a number of research projects during his time at OSU, which will lead to multiple publications. Dr. Volckmann's future practice will focus on minimally invasive surgery



as well as bariatric surgery. Dr. Hall was also a very active member of the team this year, completing over 400 advanced laparoscopic and endoscopic procedures. In addition to his clinical responsibilities, he participated in multiple CMIS continuing medical education programs and was active in teaching at our resident skills labs. Dr. Hall has taken a position with a practice in Florida where he will offer bariatric and other advanced minimally invasive procedures to his patients.

Additionally, the Center for Minimally Invasive Surgery, welcomed Dr. Vanchad Memark, clinical assistant professor of surgery, who completed a one year training program in Advanced Therapeutic Endoscopy and Gastrointestinal Surgery. Dr. Memark had an extremely busy clinical year, completing more than 130 advanced laparoscopic surgeries, and over 378 therapeutic and diagnostic endoscopies including ERCP's. He participated in a number of research projects during his time at OSU, which lead to publications. Dr. Memark will be joining a surgical practice in the Atlanta, GA area.

## Faculty

### **W. Scott Melvin, M.D.**

Professor of Surgery; Vice Chairman for Academic Affairs, Department of Surgery; Chief, Division of General and Gastrointestinal Surgery; Director, Center for Minimally Invasive Surgery

**B.S.:** Ohio Northern University, Ada, Ohio, 1983

**M.D.:** Medical College of Ohio, Toledo, Ohio, 1987

**Specialty Training:** University of Maryland, College Park, Md.; Ohio Digestive Disease Institute, Columbus, Ohio

**Appointment:** 1993

**Specialty Interests:** Gastrointestinal, hepatobiliary, and pancreatic surgery; advanced laparoscopic techniques

**Research Interests:** Laparoscopic surgery education and training, molecular biology of pancreatic cancer, experimental therapies for pancreatic cancer



*Melvin*

### **Mark W. Arnold, M.D.**

Professor of Clinical Surgery; Vice Chairman for Surgical Education, Department of Surgery

**B.A.:** University of Virginia, Charlottesville, Va., 1979

**M.D.:** New York University, New York, N.Y., 1983

**Specialty Training:** Jackson Memorial Hospital, University of Miami Medical Center, Miami, Fla.; Grant Medical Center, Columbus, Ohio

**Appointment:** 1990

**Specialty Interests:** Colon and rectal surgery

**Research Interests:** Radioimmunoguided antibodies for diagnosis and treatment of colon and rectal cancers



*Arnold*

### **E. Christopher Ellison, M.D.**

The Robert M. Zollinger Professor of Surgery; Chairman, Department of Surgery; Associate Vice President for Health Sciences and Vice Dean of Clinical Affairs, College of Medicine

**B.S.:** University of Wisconsin, Madison, Wis., 1972

**M.D.:** Medical College of Wisconsin, Milwaukee, Wis., 1976

**Specialty Training:** The Ohio State University, Columbus, Ohio

**Appointment:** 1993

**Specialty Interests:** Surgery of the liver, biliary tree, and pancreas

**Research Interests:** Gastrinoma and Zollinger-Ellison syndrome, pancreatic and hepatic cancer



*Ellison*

**Clinton R. Hall, M.D.**

Clinical Assistant Professor of Surgery

**B.S.:** Cumberland College, Williamsburg, Ky., 2000

**M.D.:** University of South Florida College of Medicine, Tampa, Fla., 2004

**Specialty Training:** Residency in general surgery, The Ohio State University, 2004–2009

**Appointment:** 2009

**Specialty Interests:** Laparoscopic surgery, gastric bypass, hernia repair

**Research Interests:** Abdominal wall defects, hernia prevention



Hall

**Alan E. Harzman, M.D.**

Assistant Professor of Clinical Surgery

**B.S.:** Vanderbilt University, Nashville, Tenn., 1997

**M.D.:** Washington University, St. Louis, Mo., 2001

**Specialty Training:** Residency in general surgery, University of Texas Southwestern Medical Center, Dallas, Texas; fellowship in colon and rectal surgery, Baylor University Medical Center, Dallas, Texas

**Appointment:** 2007

**Specialty Interests:** General surgery, colon and rectal surgery

**Research Interests:** General surgery, colon and rectal surgery



Harzman

**Jeffrey W. Hazey, M.D.**

Associate Professor of Surgery

**B.A.:** Miami University, Oxford, Ohio, 1987

**M.D.:** Case Western Reserve University, Cleveland, Ohio, 1992

**Specialty Training:** Residency in general surgery, University Hospitals of Cleveland; fellowship in nutrition and surgery research, Case Western Reserve University/Mount Sinai Medical Center; fellowship in advanced laparoscopic and endoscopic surgery, Cleveland Clinic, Cleveland, Ohio

**Appointment:** 2003

**Specialty Interests:** Minimally invasive surgery, advanced endoscopy, endoscopic retrograde cholangiopancreatography

**Research Interests:** Minimally invasive surgery, natural orifice transluminal endoscopic surgery (NOTES), endolumenal treatment options



Hazey

**Syed G. Husain, M.D.**

Assistant Professor of Clinical Surgery

**M.B.B.S.:** Dow Medical College, Karachi, Pakistan

**Specialty Training:** Residency in general surgery, Harlem Hospital Center, New York, N.Y.; fellowship in clinical research, University of Illinois at Chicago; fellowship in minimally invasive surgery, University of Rochester, Rochester, N.Y.; fellowship in colorectal surgery, Brown University, Providence, R.I.

**Appointment:** 2008

**Specialty interests:** Minimally invasive colorectal surgery

**Research Interests:** Natural orifice transluminal endoscopic surgery (NOTES)



*Husain*

**Savita Khanna, Ph.D.**

Assistant Professor of Surgery

**B.S.:** Meerut University, Meerut, Uttar Pradesh, India, 1984

**M.S.:** Meerut University, Meerut, Uttar Pradesh, India, 1986

**M.Ph.:** Meerut University, Meerut, Uttar Pradesh, India, 1988

**Ph.D.:** University of Kuopio, Kuopio, Finland, 2000

**Specialty Training:** Research fellowship in molecular and cell biology, University of California, Berkeley

**Appointment:** 2009

**Research Interests:** Tissue injury and repair, neurodegeneration and stroke

**Previous Appointment:** Research scientist, The Ohio State University Medical Center, Columbus, Ohio



*Khanna*

**Andrei V. Manilchuk, M.D.**

Assistant Professor of Clinical Surgery

**M.D.:** Gorky State Medical Institute, Nizhny Novgorod, Russia, 1984

**Specialty Training:** General surgery and surgical oncology, Nizhny Novgorod Medical Academy and Regional Cancer Center, Nizhny Novgorod, Russia; general surgery, The Ohio State University, Columbus, Ohio

**Appointment:** 2003

**Specialty Interests:** Gastrointestinal and pancreatobiliary surgery



*Manilchuk*

**Vanchad R. Memark, M.D.**

Clinical Assistant Professor of Surgery

**B.S.:** Loyola University, Chicago, Ill., 1997

**M.D.:** Loyola University, Chicago, Ill., 2004

**Specialty Training:** University of Illinois Metropolitan Group Hospitals, Chicago, Ill.

**Appointment:** 2009

**Specialty Interests:** Surgical endoscopy, minimally invasive surgery

**Research Interests:** Natural orifice transluminal surgery



*Memark*

**Dean J. Mikami, M.D.**

Assistant Professor of Surgery

**B.A.:** University of Hawaii, Manoa, Hawaii, 1991

**M.D.:** University of Kansas, Kansas City, Kan., 1997

**Specialty Training:** Residency in general surgery and fellowship in minimally invasive surgery, The Ohio State University, Columbus, Ohio

**Appointment:** 2003

**Specialty Interests:** Minimally invasive surgery, bariatric surgery, hernia treatment options

**Research Interests:** Minimally invasive surgery, natural orifice transluminal endoscopic surgery (NOTES)



*Mikami*

**Peter Muscarella, II, M.D.**

Associate Professor of Surgery; Director, Surgical Clerkship

**B.S.:** University of Rochester, Rochester, N.Y., 1989

**M.D.:** New York Medical College, Valhalla, N.Y., 1993

**Specialty Training:** Residency in general surgery, The Ohio State University, Columbus, Ohio

**Appointment:** 2000

**Specialty Interests:** General surgery, endocrine gastrointestinal disease, liver, pancreas

**Research Interests:** Pancreatic cancer, pancreatic neuroendocrine tumors



*Muscarella*

**Vimal K. Narula, M.D.**

Assistant Professor of Clinical Surgery

**B.S.:** Marshall University, Huntington, WV, 1995

**M.D.:** Marshall University, Huntington, WV, 1999

**Specialty Training:** Residency in general surgery, Marshall University; fellowship in minimally invasive surgery and fellowship in advanced therapeutic endoscopy, The Ohio State University, Columbus, Ohio

**Appointment:** 2005

**Specialty Interests:** Minimally invasive surgery, foregut surgery, advanced therapeutic endoscopy

**Research Interests:** Natural orifice transluminal endoscopic surgery (NOTES), robotic surgery



*Narula*

**Bradley J. Needleman, M.D.**

Associate Professor of Clinical Surgery; Director, Bariatric Surgery Program

**B.A.:** Vassar College, Poughkeepsie, N.Y., 1990

**M.D.:** Mount Sinai School of Medicine, New York, N.Y., 1994

**Specialty Training:** Residency in general surgery, Washington Hospital Center, Washington, D.C.; fellowship in minimally invasive surgery, The Ohio State University, Columbus, Ohio

**Appointment:** 2000

**Specialty Interests:** Advanced laparoscopic surgery, obesity surgery

**Research Interests:** Minimally invasive surgery, surgical education



*Needleman*

**David Renton, M.D.**

Assistant Professor of Clinical Surgery

**B.S.:** Tulane University, New Orleans, Louisiana, 1994

**M.D.:** Louisiana State University, New Orleans Louisiana, 2001

**Specialty Training:** Master of Public Health, Tulane University School of Public Health, New Orleans, Louisiana, 1997

**Appointment:** 2009

**Specialty Interests:** Bariatrics, natural orifice transluminal endoscopy surgery (NOTES)

**Research Interests:** Advanced technology

**Previous Appointment:** Assistant professor, University of South Carolina School of Medicine, Columbia, South Carolina



*Renton*

**Sashwati Roy, Ph.D.**

Associate Professor of Surgery

**B.S.:** Meerut University, Meerut, India, 1984

**M.S.:** Meerut University, Meerut, India, 1986

**Ph.D.:** University of Kuopio, Kuopio, Finland, 1994

**Appointment:** 2000

**Research Interests:** Antioxidant and redox biology focusing on signal transduction and gene expression



*Roy*

**Richard E. Schlanger, M.D., Ph.D.**

Associate Professor of Clinical Surgery; Director, Center of Advanced Wound Management and chief, Surgical Services, University Hospital East

**M.D.:** Faculté de Médecine, Toulouse, France, 1980

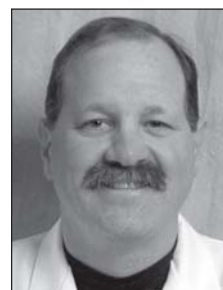
**Ph.D.:** Faculté de Médecine, Toulouse, France, 1982

**Specialty Training:** The Ohio State University, Columbus, Ohio

**Appointment:** 2000

**Specialty Interests:** General surgery, wound healing

**Research Interests:** Wound healing



*Schlanger*

**Chandan K. Sen, Ph.D.**

Professor of Surgery; Vice Chairman for Research, Department of Surgery; Associate Dean for Translational and Applied Research, College of Medicine; Deputy Director, Davis Heart and Lung Research Institute; Director, DNA Microarray and Genetics Facility, Davis Heart and Lung Research Institute; Professor, Department of Molecular and Cellular Biochemistry

**B.S.:** Calcutta University, Calcutta, India, 1987

**M.S.:** Calcutta University, Calcutta, India, 1990

**Ph.D.:** University of Kuopio, Kuopio, Finland, 1994

**Appointment:** 2000

**Research Interests:** Wound healing, redox control of biological events, role of oxygen- and nitrogen-derived species in signal transduction and gene expression



Sen

**Eric T. Volckmann, M.D.**

Clinical Assistant Professor of Surgery

**B.S.:** University of North Carolina, Chapel Hill, N.C., 1998

**M.D.:** University of North Carolina School of Medicine, Chapel Hill, N.C., 2002

**Specialty Training:** McGaw Medical Center, Northwestern University, Chicago, Ill.

**Appointment:** 2009

**Specialty Interests:** Minimally invasive gastrointestinal and bariatric surgery

**Research Interests:** Outcomes in minimally invasive surgery, natural orifice transluminal surgery, surgical device development



Volckmann

## Clinical Faculty

**Robert E. Falcone, M.D.**

Clinical Professor of Surgery

**B.A.:** Kent State University, Kent, Oh., 1973

**M.D.:** The Ohio State University, Columbus, Oh., 1976

**Jeffrey T. Innes, M.D.**

Clinical Assistant Professor of Surgery

**B.S.:** University of California, Davis, Ca., 1976

**M.D.:** University of California, Davis, Ca., 1980



**Bruce A. Kerner, M.D.**

Clinical Assistant Professor of Surgery

**B.S.:** University of Tampa, Tampa, Fla., 1980

**M.D.:** Chicago Medical School, Chicago, Il., 1984

**Richard C. Rooney, M.D.**

Clinical Assistant Professor of Surgery

**B.S.:** University of Cincinnati, Cincinnati, Oh., 1964

**M.D.:** University of Cincinnati, Cincinnati, Oh., 1967

**Thomas T. Vogel, M.D., Ph.D.**

Clinical Assistant Professor of Surgery

**B.A.:** Holy Cross College, 1955

**Ph.D.:** The Ohio State University, Columbus, Oh., 1962

**M.D.:** Georgetown University, Washington, D.C., 1965

## Resident Staff

**Catherine E. Beck, M.D.**

PGY-2

**B.S.:** University of Wisconsin, Madison, Wis., 2003

**M.D.:** Ohio State University, Columbus, Oh., 2008

**Amy L. Collins, M.D.**

Master of Medical Science Program

**B.S.:** Florida Atlantic University, Boca Raton, Fla., 2001

**M.D.:** University of South Florida, Tampa, Fla., 2007

**Alexandria Conley, M.D.**

PGY-1

**B.S.:** Wayne State University, Detroit, Mi., 2004

**M.D.:** Wayne State University, Detroit, Mi., 2009

**Andrew O. Crockett, M.D.**

PGY-4

**B.S.:** University of Utah, Salt Lake City, Ut., 2001

**M.D.:** University of Utah, Salt Lake City, Ut., 2005

**H. Tracy Davido, M.D.**

PGY-4

**B.A.:** Cleveland State University, Cleveland, Oh., 1993

**M.D.:** University of Pittsburgh, Pittsburgh, Pa., 2002



**Mary E. Dillhoff, M.D., M.S.**

PGY-3

**B.S.:** University of Cincinnati, Cincinnati, Oh., 2001**M.D.:** University of Cincinnati, Cincinnati, Oh., 2005**M.S.:** Ohio State University, Columbus, Oh., 2009**Jeffrey L. Eakin, M.D.**

PGY-4

**B.A.:** Miami University, Oxford, Oh., 2001**M.D.:** Ohio State University, Columbus, Oh., 2006**Kenechi Ebede, M.D.**

PGY-1

**B.S.:** Rutgers University, New Brunswick, N.J., 2002**M.D.:** University of Pennsylvania, Philadelphia, Pa., 2009**David C. Evans, M.D.**

Surgical Critical Care Fellow

**B.S.:** Duke University, Durham, N.C., 2002**M.D.:** Duke University, Durham, N.C., 2006**Bryan T. Fisher, M.D.**

PGY-5

**B.S.:** Tennessee State University, Nashville, Tn., 2000**M.D.:** University of Wisconsin, Madison, Wis., 2004**Mason G. Fisher, M.D., M.S.**

PGY-5

**B.A.:** Miami University, Oxford, Oh., 1999**M.D.:** Ohio State University, Columbus, Oh., 2003**M.S.:** Ohio State University, Columbus, Oh., 2007**Meghan R. Forster, M.D., M.S.**

PGY-4

**B.A.:** DePauw University, Greencastle, In., 1998**M.D.:** University of Cincinnati, Cincinnati, Oh., 2004**M.S.:** Ohio State University, Columbus, Oh., 2008**Kristan D. Guenterberg, M.D., M.S.**

PGY-3

**B.S.:** Walla Walla College, College Place, Wa., 2001**M.D.:** Loma Linda University, Loma Linda, Ca., 2005**M.S.:** Ohio State University, Columbus, Oh., 2009

**Ioannis S. Hatzaras, M.D., M.P.H.**

PGY-4

**M.D.:** Aristotle University of Thessaloniki, Thessaloniki, Greece, 2002

**M.P.H.:** Ohio State University, Columbus, Oh., 2010

**Lisa M. Haubert, M.D., M.S.**

PGY-3

**B.S.:** University of Akron, Akron, Oh., 2002

**M.D.:** Ohio State University, Columbus, Oh., 2006

**M.S.:** Ohio State University, Columbus, Oh., 2010

**Russell G. Hendrick, Jr., M.D.**

PGY-2

**B.S.:** Louisiana State University, Baton Rouge, La., 2001

**M.S.:** Louisiana State University, Baton Rouge, La., 2003

**M.D.:** Louisiana State University, New Orleans, La., 2008

**Jon C. Henry, M.D.**

PGY-2

**B.S.:** Ohio State University, Columbus, Oh., 2004

**M.D.:** Ohio State University, Columbus, Oh., 2008

**Natalie B. Jones, M.D., M.S.**

PGY-5

**B.A.:** University of Virginia, Charlottesville, Va., 2000

**M.D.:** Ohio State University, Columbus, Oh., 2004

**M.S.:** Ohio State University, Columbus, Oh., 2008

**Alistair J. Kent, M.D.**

PGY-2

**B.S.:** Harding University, Searcy, Ark., 2004

**M.D.:** Washington University, St. Louis, Mo., 2008

**Michelle Y. Kincaid, M.D.**

Master of Medical Science Program

**B.A.:** Johns Hopkins University, Baltimore, Md., 2002

**M.D.:** University of Maryland, Baltimore, Md., 2007

**Eric A. Luedke, M.D.**

PGY-3

**B.S.:** Marquette University, Milwaukee, Wis., 2003

**M.D.:** Medical College of Wisconsin, Milwaukee, Wis., 2007

**Sara Martin del Campo, M.D.**

PGY-1

**B.S.:** Indiana University, Bloomington, In., 2005**M.D.:** University of Iowa, Iowa City, Ia., 2009**Mika Matthews, M.D.**

PGY-1

**B.S.:** University of Michigan, Ann Arbor, Mi., 2005**M.D.:** Morehouse School of Medicine, Atlanta, Ga., 2009**Alison McAnneny, M.D.**

PGY-3

**B.A.:** Colby College, Waterville, Me., 2003**M.D.:** Pennsylvania State University, Hershey, Pa., 2007**Ryan Mills, M.D.**

PGY-1

**B.S.:** University of Colorado, Boulder, Co., 2004**M.D.:** Ohio State University, Columbus, Oh., 2009**Theodore W. Nagel, M.D.**

PGY-2

**B.A.:** St. Olaf College, Northfield, Mn., 2004**M.D.:** Northwestern University, Evanston, Ill., 2008**Peter N. Nau, M.D., M.S.**

PGY-3

**B.S.:** St. Olaf College, Northfield, Mn., 2001**M.D.:** University of Iowa, Iowa City, Ia., 2006**M.S.:** Ohio State University, Columbus, Oh., 2010**Iyore A. James M.D., M.A.L.D., M.S.**

Master of Medical Science Program

**B.S.:** University of Massachusetts, Worcester, Ma., 2001**M.D.:** Tufts University, Boston, Ma., 2006**M.S.:** Ohio State University, Columbus, Oh., 2010**Laura A. Peterson, M.D.**

PGY-2

**B.S.:** University of Wisconsin, Madison, Wis., 2004**M.D.:** University of Wisconsin, Madison, Wis., 2008

**Thomas A. Pham, M.D.**

Master of Medical Science Program

**B.S.:** Ohio State University, Columbus, Oh., 2003

**M.D.:** University of Cincinnati, Cincinnati, Oh., 2007

**Maureen E. Pons, M.D.**

Master of Medical Science Program

**B.A.:** Cornell University, Ithaca, N.Y., 2003

**M.D.:** University of Connecticut, Farmington, Ct., 2007

**Ricardo O. Quarrie, M.D.**

Master of Medical Science Program

**B.S.:** Florida State University, Tallahassee, Fla., 2003

**M.D.:** Ohio State University, Columbus, Oh., 2007

**Geoffrey J. Roelant, M.D., M.S.**

PGY-2

**B.S.:** Michigan Technological University, Houghton, Mi., 1999

**M.S.:** Michigan Technological University, Houghton, Mi., 2002

**M.D.:** University of Maryland, College Park, Md., 2008

**Jennifer Schwartz, M.D.**

PGY-1

**B.S.:** Vanderbilt University, Nashville, Tn., 2005

**M.D.:** University of New York at Syracuse College of Medicine, Syracuse, N.Y., 2009

**Prashant Sukharamwala, M.D.**

PGY-2

**B.S.:** Government Medical College, Surat, India, 2006

**M.D.:** Government Medical College, Surat, India, 2006

**Irina S. Shakhnovich, M.D., M.S.**

PGY-5

**B.A.:** Marquette University, Milwaukee, Wis., 1999

**M.D.:** Medical College of Wisconsin, Milwaukee, Wis., 2004

**M.S.:** The Ohio State University, Columbus, Oh., 2009

**Vance L. Smith, M.D., M.B.A.**

PGY-5

**B.A.:** Cedarville University, Cedarville, Oh., 1997

**M.S.:** Kansas State University, Manhattan, Ks., 1999

**M.D.:** Medical College of Ohio, Toledo, Oh., 2003

**M.B.A.:** The Ohio State University, Columbus, Oh., 2007

**Tyler C. Spata, M.D.**

PGY-2

**B.A.:** University of Texas, Austin, Tx., 2003**M.D.:** University of Texas, Austin, Tx., 2008**Maakan Taghizadeh, M.D.**

PGY-4

**B.S.:** James Madison University, Harrisonburg, Va., 2000**M.D.:** University of Maryland, Baltimore, Md., 2006**Alicia C. Thomas, M.D., M.S.**

PGY-3

**B.S.:** High Point University, High Point, N.C., 2002**M.D.:** University of North Carolina, Chapel Hill, N.C., 2006**M.S.:** The Ohio State University, Columbus, Oh., 2010**Christian Walker, M.D.**

PGY-1

**B.S.:** University of Washington, Seattle, Wa., 2004**M.D.:** Ohio State University, Columbus, Oh., 2009**Mark R. Wendling, M.D.**

PGY-1

**B.S.:** Lawrence University, Appleton, Wis., 2004**M.D.:** Medical College of Wisconsin, Milwaukee, Wis., 2009**Jonathan R. Wisler, M.D.**

PGY-2

**B.A.:** Miami University, Oxford, Oh., 2004**M.D.:** University of Cincinnati, Cincinnati, Oh., 2008**Jonathan C. Yang, M.D.**

PGY-3

**B.A.:** University of California, Berkeley, Ca., 2002**M.D.:** Drexel University, Philadelphia, Pa., 2007

## Mission

The Division of General and Gastrointestinal Surgery is dedicated to the achievement of excellence in patient care, medical education, clinical training, and basic science and clinical research.

## Research Programs

- Wound angiogenesis and healing.
- Cardiac remodeling.
- Vitamin E and neurodegeneration.
- Clinical wound healing.
- Cytomegalovirus infections and bacterial sepsis.
- Gene therapy and the effects of early genetic changes in pancreatic cancer.
- Minimally invasive surgical techniques.

## Accomplishments in Research

- Faculty members in the division published 123 scholarly articles, abstracts, and chapters.
- The scientific journal ARS (Antioxidants & Redox Signaling), for which Dr. Chandan Sen is the founder and editor, was recognized by the Institute for Scientific Information as one of the top scientific publications nationwide. It was awarded an impact factor of 7.581, which ranks it as one of the top scientific journals overall.
- The Bariatric Center of Excellence at The Ohio State University Medical Center has been selected as one of two sites in the United States to evaluate a new laparoscopic bariatric surgery. To date, the principal investigator of this study, Bradley J. Needleman, MD, has performed eight greater curvature plication surgeries. Dr. Needleman is in the process of screening five more candidates for this promising new surgery to facilitate weight loss in morbidly obese patients. The sponsor of this study is Ethicon Endo-Surgery, Inc.
- Dara Schuster, MD, who holds a joint appointment with the Division of Endocrinology, Diabetes and Metabolism and the Division of General and Gastrointestinal Surgery, received a \$525,451 grant from Covidien for a project entitled: "Metabolic Surgery vs. Medical Management for Resolution of Type II Diabetes: A Prospective Group Match Study."

- Dr. Kyle Perry received a \$30,000 grant from the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) for a project is entitled: "Identifying the optimal duration of gastric ischemic conditioning to improve gastroesophageal anastomotic wound healing."
- Investigators from The Center for Minimally Invasive Surgery (CMIS) at The Ohio State University Medical Center (OSUMC) continue to be in the forefront of Natural Orifice Transluminal Endoscopic Surgery (NOTES) research. OSUMC has been selected as a site in a NOTES cholecystectomy multicenter clinical trial sponsored by the Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR). NOSCAR, a non-profit organization formed in July 2005 to further NOTES research, is supported by the American Society for Gastrointestinal Endoscopy (ASGE) and the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES).

## Active Research Grants

**Hazey JW.** Diagnostic transluminal endoscopic peritoneoscopy. Ethicon, Inc., January 9, 2009 – April 30, 2011, \$3,913.

**Hazey JW.** Feasibility of diagnostic transluminal endoscopic peritoneoscopy for abdominal insufflation, adhesiolysis, and trocar placement in patients who require laparoscopic access. Natural Orifice Surgery Consortium for Assessment, September 1, 2008 – August 31, 2009, \$41,250.

**Hazey JW.** Human clinical trial of diagnostic laparoscopy compared to diagnostic transgastric endoscopic peritoneoscopy for staging of pancreatic and esophageal cancer. Natural Orifice Surgery Consortium for Assessment, February 1, 2008 – January 3, 2010, \$40,000.

**Hazey JW, Melvin WS.** Transgastric bacterial contamination of the abdomen. Stryker Endoscopy, June 1, 2006 – September 1, 2010, \$35,000.

**Melvin WS.** Skill retention and retraining using the da Vinci robot. Akron General Medical Center, May 1, 2009 – May 31, 2010, \$21,000.

**Melvin WS, Mikami DJ.** The evaluation of the Sightline ColonoSight System. Stryker Corp., November 14, 2005 – August 31, 2010, \$6,500.

**Muscarella P.** A phase 2, double-blind, placebo-controlled, multicenter adjuvant trial of the efficacy, immunogenicity, and safety of GI-4000. GlobeImmune, January 24, 2007 – December 31, 2010, \$127,150.

**Needleman BJ, Melvin WS.** Evaluation of endostapled anastomoses for laparoscopic gastric bypass: A prospective randomized comparison of the 3.5-mm vs. 4.8-mm circular stapler for creation of the gastrojejunostomy. United States Surgical Corporation, March 1, 2005 – September 30, 2009, \$11,613.

**Needleman BJ, Mikami DJ.** Multicenter, retrospective chart review to collect information on the frequency of trocar site hernias in gastric bypass patients. Covidien, August 8, 2008 – September 30, 2009, \$4,020.

**Roy S, Cardounel AJ, Khanna S, Sen CK.** Vitamin E tocotrienol and brain health. Carotech, July 27, 2007 – September 30, 2009, \$550,000.

**Roy S, Gordillo GM, Parinandi NL, Sen CK.** Mechanisms underlying impaired diabetic wound healing. National Institute of Diabetes and Digestive and Kidney Diseases, April 1, 2008 – January 31, 2012, \$255,000.

**Roy S, Khanna S.** Porcine burn study. Carotech, January 2, 2008 – January 31, 2011, \$150,000.

**Roy S, Khanna S, Sen CK.** Molecular pathways in the wound macrophage and their modulation. Glycotex, Inc., July 27, 2007 – August 31, 2009, \$250,000.

**Sen CK, Askwith CC, Parinandi NL, Roy S.** Vitamin E neuroprotection: novel molecular mechanisms. National Institute of Neurological Disorders and Stroke, January 1, 2008 – December 31, 2011, \$236,250.

**Sen CK, Bergdall-Costell VK.** Tissue oxygenation and wound angiogenesis. National Institute of General Medical Sciences, August 1, 2007 – May 31, 2011, \$ 250,800.

**Sen CK, Gordillo GM.** Efficacy of natural vitamin E tocotrienol on the treatment of scars. Carotech, February 1, 2008 – January 31, 2011, \$276,000.

**Sen CK, Gordillo GM.** Use of dermaPACE (Pulsed Acoustic Cellular Expression) device in conjunction with standard of care in the treatment of diabetic foot ulcers. Sanuwave, Inc., March 3, 2009 – March 31, 2010, \$1,530.

## Clinical Programs

- Comprehensive general surgery service.
- Minimally invasive surgery.
- Bariatric surgery.
- Benign and malignant esophageal disorders.
- Gastroesophageal reflux.



- Hepatobiliary and pancreatic cancer.
- Treatment of benign and malignant diseases of the colon and rectum.
- Wound care.

## Accomplishments in Clinical Care

- Attending faculty in the division performed 15,679 surgical procedures and received 17,673 outpatient visits.

## Clinical Statistics

OR Procedures	5,383
Outpatient Visits	12,843
Admissions	2,887
Patient Days	16,256
Average Length of Stay (Days)	5.63

## Educational Programs

- Fully-accredited residency in general surgery.
- One-year clinical assistant professorship in minimally invasive surgery and advanced therapeutic endoscopy.
- Honors program in surgery for fourth-year medical students.
- Four-week subinternship in general surgery.
- Six-week clerkship in general surgery.
- Master of medical science program.

## Accomplishments in Education

- Completion of the general surgery residency by Dr. Bryan Fisher, Dr. Mason Fisher, Dr. Natalie Jones, Dr. Irina Shakhnovich and Dr. Vance Smith.
- In October 2009 the General Surgery Residency Program underwent a comprehensive review by Residency Review Committee of the Accreditation Council for Graduate Medical Education and was granted a 4 year accreditation extension.
- Completion of the clinical assistant professorship in minimally invasive surgery by Dr. Clinton Hall and Dr. Eric Volckmann.
- Completion of the clinical assistant professorship in advanced therapeutic endoscopic surgery by Dr. Vanchad Memark.
- Association for Surgical Education's (ASE) Surgical Education Research Fellowship (SERF) awarded to Dr. Alan Harzman.
- Department of Surgery Faculty Teacher of the Year award received by Dr. Andrei Manilchuk.
- The Ohio State University College of Medicine Distinguished Educator Award received by Dr. W. Scott Melvin.
- Faculty have trained over 233 surgeons, residents, students and allied healthcare professionals from throughout the United States and international community in educational programs offered through the Center for Minimally Invasive Surgery.

## Publications

**Bergman S, Fix DJ, Volt K, Roland JC, Happel L, Reavis KM, Cios TJ, Ho V, Evans A, Narula VK, Hazey JW, Melvin WS.** Do gastrostomies require repair after endoscopic transgastric peritoneoscopy? A controlled study. *Gastrointest Endosc.* 2010 May;71(6):1013-7.

**Biswas S, Roy S, Banerjee J, Hussain SR, Khanna S, Meenakshisundaram G, Kuppusamy P, Friedman A, Sen CK.** Hypoxia inducible microRNA 210 attenuates keratinocyte proliferation and impairs closure in a murine model of ischemic wounds. *Proc Natl Acad Sci U S A.* 2010 Apr 13;107(15):6976-81. Epub 2010 Mar 22.

**Bloomston M, Kneile J, Butterfield M, Dillhoff M, Muscarella P, Ellison EC, Melvin WS, Croce CM, Pichiorri F, Huebner K, Frankel WL.** Coordinate loss of fragile gene expression in pancreaticobiliary cancers: Correlations among markers and clinical features. *Ann Surg Oncol.* 2009 Aug;16(8):2331-8.

**Box D, Nagel R, Way D, Harzman AE.** Cross-Platform adaptation and validation of laparoscopic skills tasks: Some tasks are robust across platforms. *Surg Endosc.* 2010;24:S314-S701.

**Demyttenaere SV, Bergman S, Pham T, Anderson J, Dettorre R, Melvin WS, Mikami DJ.** Transoral incisionless fundoplication for gastroesophageal reflux disease in an unselected patient population. *Surg Endosc.* 2010 Apr;24(4):854-8.

**Demyttenaere SV, Bergman S, Pham T, Anderson J, Dettorre R, Melvin WS, Mikami DJ.** Transoral incisionless fundoplication for gastroesophageal reflux disease in an unselected patient population. *Surg Endoscopy.* Epub ahead of Print Sep 3, 2009.

**Demyttenaere SV, Nau P, Henn M, Beck C, Zaruby J, Primavera M, Kirsch D, Miller J, Liu JJ, Bellizzi A, Melvin WS.** Barbed suture for gastrointestinal closure: A randomized control trial. *Surg Innov.* 2009 Sep;176(3):237-42.

**Demyttenaere SV, Nau P, Henn M, Beck C, Zaruby J, Primavera M, Kirsch D, Miller J, Liu JJ, Bellizzi A, Melvin WS.** Barbed Suture for Gastrointestinal Closure: A Randomized Control Trial. *Surgical Innovation.* 2009. 16 (3):237-242.

**Dillhoff M, Yates R, Wall K, Muscarella P, Melvin WS, Ellison EC, Bloomston M.J.** Intraoperative Assessment of Pancreatic Neck Margins at the Time of Pancreaticoduodenectomy increases likelihood of Margin negative resection in patients with Pancreatic Cancer. *Gastrointest Surg.* 2009 13:825-830

**Enestvedt CK, Perry KA, Kim C, McConnell PW, Diggs BS, Vernon A, O'Rourke RW, Luketich JD, Hunter JG, Jobe BA.** Trends in the management of esophageal carcinoma based on provider volume: Treatment practices of 618 esophageal surgeons. *Distal Esophagus.* 2010 Feb 1;23(2):136-44.

**Hatzaras I, George N, Muscarella P, Melvin WS, Ellison EC, Bloomston M.** Predictors of survival in periampullary cancers following pancreaticoduodenectomy. *Ann Surg Oncol.* 2010 Apr;17(4):991-7.

**Hatzaras I, Schmidt C, Muscarella P, Melvin WS, Ellison EC, Bloomston M.** Elevated CA 19-9 portends poor prognosis in patients undergoing resection of biliary malignancies. *HPB (Oxford).* 2010 Mar;12(2):134-8.

**Li Z, Wang F, Roy S, Sen CK, Guan J.** Injectable, highly flexible, and thermosensitive hydrogels capable of delivering superoxide dismutase. *Biomacromolecules.* 2009 Dec 14;10(12):3306-16.

**Gordillo G, Fang H, Park HA, Roy S.** Nox-4 Dependent Nuclear H<sub>2</sub>O<sub>2</sub> Drives DNA Oxidation Resulting in 8-OHdG as Urinary Biomarker and Hemangioendothelioma Formation. *Antioxid Redox Signal.* 2009 Oct 9. [Epub ahead of print]

**Jones NB, Hatzaras I, George N, Muscarella P, Ellison EC, Melvin WS, Bloomston M.** Clinical factors predictive of malignant and premalignant cystic neoplasms of the pancreas: A single institution experience. *HPB (Oxford)*. 2009 Dec;11(8):664-70.

**Khanna S, Biswas S, Shang Y, Collard E, Azad A, Kauh C, Bhasker V, Gordillo GM, Sen CK, Roy S.** Macrophage dysfunction impairs resolution of inflammation in the wounds of diabetic mice. *PLoS One*. 2010 Mar 4;5(3):e9539.

**Khanna S, Parinandi NL, Kotha SR, Roy S, Rink C, Bibus D, Sen CK.** Nanomolar vitamin E alpha-tocotrienol inhibits glutamate-induced activation of phospholipase A and causes neuroprotection. *J Neurochem. J Neurochem*. 2010 Mar;112(5):1249-60. Epub 2009 Dec 17.

**Memark VR, Shah NR, Nau PN, Hall CR, Volckmann ET, Dettorre RR, Needleman BJ, Melvin WS, Hazey JW.** Transgastric diagnostic peritoneoscopy with laparoscopic assistance using a novel flexible toolbox for advanced minimally invasive procedures: An initial evaluation. *Surg Endosc*. 2010;24:S314-S701.

**Mikami D, Needleman B, Narula V, Durant J, Melvin WS.** Natural orifice surgery: Initial US experience utilizing the StomaphyX device to reduce gastric pouches after Roux-en-Y gastric bypass. *Surg Endosc*. 2010 Jan;24(10):223-8.

**Narula VK, Happel LC, Volt K, Bergman S, Roland JC, Dettorre R, Renton DB, Reavis KM, Needleman BJ, Mikami DJ, Ellison EC, Melvin WS, Hazey JW.** Transgastric endoscopic peritoneoscopy does not require decontamination of the stomach in humans. *Surgical Endoscopy*. 2009 Vol. 23, no. 6. (June 1): 1331-1336.

**Narula VK, Mikami DJ, Melvin WS.** Robotic and laparoscopic pancreaticoduodenectomy: a hybrid approach. *Pancreas*. 2010 Mar;39(2):160-4.

**Narula VK, Mikami DJ, Melvin WS.** Robotic and Laparoscopic Pancreaticoduodenectomy. *Pancreas*. 2009 Nov 12. (Epub ahead of Print).

**Nau P, Anderson J, Happel L, Yuh B, Narula VK, Needleman B, Ellison EC, Melvin WS, Hazey JW.** Safe alternative transgastric peritoneal access in humans: *NOTES Surgery*. 2010 Jan 30. [Epub ahead of print]

**Nau P, Anderson J, Needleman B, Ellison EC, Melvin WS, Hazey JW.** Endoscopic peritoneal access and insufflation: Natural orifice transluminal endoscopic surgery. *Gastrointest Endosc*. 2010 Mar;71(3):485-9.

**Nau P, Anderson J, Yuh B, Muscarella P Jr, Christopher Ellison E, Happel L, Narula VK, Melvin WS, Hazey JW.** Diagnostic transgastric endoscopic peritoneoscopy: Extension of the initial human trial for staging of pancreatic head masses. *Surg Endosc*. 2010 Jun;24(6):1440-6.

**Nau P, Melvin WS, Narula VK, Bloomston PM, Ellison EC, Muscarella P.** Laparoscopic distal pancreatectomy with splenic conservation: An operation without increased morbidity. *Gastroenterol Res Pract.* 2009;2009:846340.

**Nau, P, Anderson, J, Happel, L, Yuh, B., Narula, VK, Needleman, BJ, Ellison, CE, Melvin, WS, Hazey, JW.** Safe alternative transgastric peritoneal access in humans: NOTES. *Surgery.* 2010 Jan 30. [Epub ahead of print]

**Nau, P, Anderson, J, Narula, V, Needleman, BJ, Mikami, D, Ellison, CE, Melvin, WS, Hazey, J.** A Review of 130 Patients Undergoing Transgastric NOTES Protocols at a Single Institution. Submitted (April, 2010), *Surgical Endoscopy.*

**Nau, P, Anderson, J, Needleman, BJ, P, Ellison, V, Melvin, WS, Hazey, J.** Endoscopic peritoneal access and insufflation: NOTES. *Gastrointest Endosc.* 2010 Mar;71(3):485-489. Epub 2009 Dec 8.

**Nau, P, Anderson, J, Yuh, B, Muscarella, P, Ellison, CE, Happel, L, Narula, V, Melvin, WS, Hazey, J.** Diagnostic Transgastric Endoscopic Peritoneoscopy: Extension of Initial Human Trial for Staging of Pancreatic Head Masses. *Surg Endosc.* (2010) 24 (6): 1440-6.

**Nau, P, Demyttenaere, S, Hazey, J, Muscarella, P, Narula, V, Ellison, CE, Melvin, WS.** Pheochromocytoma Does Not Increase Risk in Laparoscopic Adrenalectomy. Accepted (March 12, 2010), *Surgical Endosc.*

**Nau, P, Liu, J, Dillhoff, M, Hazey, J, Forster, M, Melvin, WS.** Three Cases of Neuroendocrine Carcinoma of the Gallbladder. Submitted (August 14, 2009), *Gastroenterology Research and Practice.*

**Nguyen NT, Pomp A, Needleman BJ, Mikami DJ, Provost D, Scott D, Jones D, Gallagher S, Dakin G, Gagner M, Murr M.** "Impact Of Staple Height On The Gastro-Jejunostomy During Laparoscopic Gastric Bypass: A Multi-Center Prospective Randomized Trial" [Abstract]. *American Society for Metabolic and Bariatric Surgeons.* no. PL-201. Grapevine, TX, USA. (25 June 2009) [Peer Reviewed] (Published)

**Park HA, Khanna S, Rink C, Gnyawali S, Roy S, Sen CK.** Glutathione disulfide induces neural cell death via a 12-lipoxygenase pathway. *Cell Death Differ.* 2009 Aug;16(8):1167-79.

**Perry KA, El Youssef R, Pham TH, Sheppard BC.** Laparoscopic adrenalectomy for large unilateral pheochromocytoma: Experience in a large academic medical center. *Surg Endosc.* 2010 Jun;24(6):1462-7.

**Perry KA, Enestvedt CK, Diggs BS, Jobe BA, Hunter JG.** Perioperative outcomes of laparoscopic transhiatal inversion esophagectomy compare favorably with those of combined thoracoscopic-laparoscopic esophagectomy. *Surg Endosc.* 2009 Sep;23(9):2146-54.

**Perry KA, Enestvedt CK, Diggs BS, Jobe BA, Hunter JG.** Perioperative Outcomes of Laparoscopic Transhiatal Inversion Esophagectomy Compare Favorably to Those of Combined Thoracoscopic-Laparoscopic Esophagectomy. *Surg Endosc.* 2009; 23:2147-2154.

**Perry KA, Enestvedt CK, Hosack LW, Pham TH, Diggs BS, The S, Orloff S, Winn S, Hunter JG, Sheppard BC.** Increased vascular endothelial growth factor transcription in residual hepatocellular carcinoma after open versus laparoscopic hepatectomy in a small animal model. *Surg Endosc.* 2010 May;24(5):1151-7.

**Perry KA, Enestvedt CK, Pham T, Welker M, Jobe BA, Hunter JG, Sheppard BC.** Comparison of laparoscopic inversion esophagectomy and open transhiatal esophagectomy for high-grade dysplasia and stage I esophageal adenocarcinoma. *Arch Surg.* 2009 Jul;144(7):679-84.

**Perry KA, Enestvedt CK, Pham TH, Dolan JP, Hunter JG.** Esophageal replacement following gastric devascularization is safe, feasible, and may decrease anastomotic complications. *J Gastrointest Surg.* 2010 May 15. [Epub ahead of print]

**Perry KA, Enestvedt CK, Pham TH, Welker M, Jobe BA, Hunter JG, Sheppard BC.** Comparison of Laparoscopic Inversion Esophagectomy and Open Transhiatal Esophagectomy for High Grade Dysplasia and Stage I Esophageal Adenocarcinoma. *Arch Surg.* 2009; 144:679-684.

**Perry KA, Hunter JG.** Para-Oesophageal Hernia and Gastric Volvulus. In: *A Companion to Specialist Surgical Practice: Oesophagogastric Surgery*, 4th Edition. Griffin SM, Raimes SA, eds. Saunders, London, 2009.

**Perry KA, Jobe BA Thomas CR, and Hunter JG.** Multi-disciplinary Care Team: Structure and Format. In: *Esophageal Cancer: Principles and Practice*. Demos Medical Publishing, New York, 2009.

**Pham TH, Perry KA, Dolan JP, Schipper P, Sukumar M, Sheppard BC, Hunter JG.** Comparison of perioperative outcomes after combined thoracoscopic-laparoscopic esophagectomy and open Ivor-Lewis esophagectomy. *Am J Surg.* 2010 May;199(5):594-8.

**Rink C, Roy S, Khan M, Ananth P, Kuppusamy P, Sen CK, Khanna S.** Oxygen-sensitive outcomes and gene expression in acute ischemic stroke. *Journal of Cerebral Blood Flow and Metabolism.* 2010 Feb 10. [Epub ahead of print]

**Roy S, Khanna S, Azad A, Schnitt R, He G, Weigert C, Ichijo H, Sen CK.** Fra-2 mediates oxygen-sensitive induction of transforming growth factor beta in cardiac fibroblasts. *Cardiovasc Res.* 2010 Apr 28. [Epub ahead of print]

**Shah NR, Hodges CT, Memark VR, Volckmann ET, Hall CR, Needleman BJ, Mikami DJ, Hazey JW, Melvin WS, Narula VK.** A comparison of outcomes in open versus laparoscopic surgical repair of recurrent inguinal hernias. *Surg Endosc.* 2010;24:S192-S269.

**Silviera ML, Seamon MJ, Porshinsky B, Prosciak MP, Doraiswamy VA, Wang CF, Lorenzo M, Truitt M, Biboa J, Jarvis AM, Narula VK, Steinberg SM, Stawicki SP.** Complications related to endoscopic retrograde cholangiopancreatography: a comprehensive clinical review. *J Gastrointest Liver Dis.* 2009 Mar;18(1):73-82.

**Taghizadeh M and Muscarella P.** Splenectomy for Hematologic Disorders. In Cameron JL (Ed.), *Current Surgical Therapy (Tenthon)*. 2010; Mosby, Philadelphia, PA.

**Van Hove CE, Hunter JG, Perry KA.** Laparoscopic Antireflux Surgery: Esophageal Lengthening Procedures. In: *Mastery of Endoscopic and Laparoscopic Surgery, 3rd Edition*. Soper NJ, Swanstrom LL, Eubanks WS, eds. Lippincott, Williams, and Wilkins, Philadelphia, 2009; 112-116.

**Vassiliou MC, Kaneva PA, Poulou BK, Dunkin BJ, Marks JM, Sadik R, Sroka G, Anvari M, Thaler K, Andrales GL, Hazey JW, Lightdale JR, Velanovich V, Swanstrom LL, Mellinger JD, Fried GM.** Global assessment of gastrointestinal endoscopic skills (GAGES): A valid measurement tool for technical skills inflexible endoscopy. *Surg Endosc.* 2010 Jan 29. [Epub ahead of print]

**Vassiliou MC, Kaneva PA, Poulou BK, Dunkin BJ, Marks JM, Sadik R, Sroka G, Anvari M, Thaler K, Andrales GL, Hazey JW, Lightdale JR, Velanovich V, Swanstrom LL, Mellinger JD, Fried GM.** How should we establish the clinical case numbers required to achieve proficiency in flexible endoscopy? *Am J Surg.* 2010 Jan;199(1):121-5.

**Vassiliou MC, Kaneva PA, Poulou BK, Dunkin BJ, Marks JM, Sadik R, Sroka G, Anvari M, Thaler K, Andrales GL, Hazey JW, Lightdale JR, Velanovich V, Swanstrom LL, Mellinger JD, Fried GM.** GAGES: A Valid Measurement Tool for Technical Skills in Flexible Endoscopy. Accepted, *Surgical Endosc.*

**Volckmann ET, Firat O, Shah NR, Mikami DJ, Hall CR, Memark VR, Needleman BJ.** Effects of different types of staple line reinforcement on tissue handling and slippage during laparoscopic stapling. *Surg Endosc.* 2010;24:S314-S701.

**Xue, C., A. Friedman and Sen, C.K.** A mathematical model of ischemic cutaneous wounds. *Proc Natl Acad Sci U S A.* 106(39):16782-7, 2009.

## Abstracts

**Box D, Nagel R, Way D, Harzman AE.** Cross-Platform adaptation and validation of laparoscopic skills tasks: Some tasks are robust across platforms. *Surg Endosc.* 2010;24:S314-S701.

**Memark VR, Shah NR, Nau PN, Hall CR, Volckmann ET, Dettorre RR, Needleman BJ, Melvin WS, Hazey JW.** Transgastric diagnostic peritoneoscopy with laparoscopic assistance using a novel flexible toolbox for advanced minimally invasive procedures: An initial evaluation. *Surg Endosc.* 2010; 24:S314-S701.

**Perry KA, Enestvedt CK, Diggs BS, Jobe BA, Hunter JG.** Perioperative Outcomes of Laparoscopic Transhiatal Inversion Esophagectomy Compare Favorably to Those of Combined Thoracoscopic-Laparoscopic Esophagectomy. *Surg Endosc.* 2009; 23:2147-2154.

**Perry KA, Enestvedt CK, Pham TH, Welker M, Jobe BA, Hunter JG, Sheppard BC.** Comparison of Laparoscopic Inversion Esophagectomy and Open Transhiatal Esophagectomy for High Grade Dysplasia and Stage I Esophageal Adenocarcinoma. *Arch Surg.* 2009; 144:679-684.

**Perry KA, Hunter JG.** Para-Oesophageal Hernia and Gastric Volvulus. In: *A Companion to Specialist Surgical Practice: Oesophagogastric Surgery, 4th Edition.* Griffin SM, Raimes SA, eds. Saunders, London, 2009.

**Shah NR, Hodges CT, Memark VR, Volckmann ET, Hall CR, Needleman BJ, Mikami DJ, Hazey JW, Melvin WS, Narula VK.** A comparison of outcomes in open versus laparoscopic surgical repair of recurrent inguinal hernias. *Surg Endosc.* 2010;24:S192-S269.

**Volckmann ET, Firat O, Shah NR, Mikami DJ, Hall CR, Memark VR, Needleman BJ.** Effects of different types of staple line reinforcement on tissue handling and slippage during laparoscopic stapling. *Surg Endosc.* 2010;24:S314-S701.

## Books

**Sen, C.K.** (Ed). ADVANCES IN WOUND CARE. Yearbook of the Wound Healing Society, Mary Ann Liebert Inc., Volume 2, in press.

**Sen, C.K.** (Ed). ADVANCES IN WOUND CARE. Yearbook of the Wound Healing Society, Mary Ann Liebert Inc., Volume 1, 2010.

## Book Chapters

**Cataldo T, Husain S.** Limitations of Anal Physiology Testing. In: Whitlow CW, Beck DE, Margolin DA, Hicks TC, Timmcke AE, eds. *Improved Outcomes in Colon and Rectal Surgery.* Chelchester, UK: Informa UK: 2010.

**Demyttenaere S, Melvin WS.** Laparoscopic Robotic Distal Pancreatectomy and Splenectomy. In *American College of Surgeons Atlas of Surgery.* In Press, April, 2010.

**Harzman AE.** 2009. Infection in the Surgical Intensive Care Unit. In *Parkland Trauma Handbook, 3rd ed.* 3 ed. Edited by Alexander L. Eastman, David H. Rosenbaum, Erwin Thal. Philadelphia: Mosby/Elsevier.



**Mikami DJ, Beery PE, Ellison EC.** "Surgery in the Pregnant Patient." In *Sabiston Textbook of Surgery*. 19 ed. Edited by Townsend CM, Beauchamp RD, Evers BM, Mattox KL. Saunders. 2010.

**Eakin J, Melvin WS.** Management of Achalasia. In *Current Surgical Therapy*, 10th edition. Editor, Cameron JL. Elsevier Science, 2010.

**Muscarella P and Melvin WS.** Common Bile Duct Exploration. In: *UpToDate*, Basow DS (Ed.), UpToDate, Waltham, MA, 2010.

**Melvin WS.** Commentary on: Robotics in Bariatric Surgery. In: *Atlas of Bariatric and Metabolic Surgery*. Editor, Daniel Jones. Cinemed, Waterbury, CT, USA. 2010.

**Perry KA, Jobe BA, Thomas CR, and Hunter JG.** Multi-disciplinary Care Team: Structure and Format. In: *Esophageal Cancer: Principles and Practice*. Demos Medical Publishing, New York, 2009.

**Perry K, Melvin WS.** Open repairs of Paraesophageal and Diaphragmatic Hernias. In: *Mastery of Surgery*, in Press 2010.

**Taghizadeh M and Muscarella P.** Splenectomy for Hematologic Disorders. In Cameron JL (Ed.), *Current Surgical Therapy (Tenthon)*. 2010; Mosby, Philadelphia, PA.

**Van Hove CE, Hunter JG, Perry KA.** Laparoscopic Antireflux Surgery: Esophageal Lengthening Procedures. In: *Mastery of Endoscopic and Laparoscopic Surgery, 3rd Edition*. Soper NJ, Swanstrom LL, Eubanks WS, eds. Lippicott, Williams, and Wilkins, Philadelphia, 2009; 112-116.

**Sen, CK., Khanna, S., Azad A., Roy, S.** Hyperoxia inducible remodeling of the reoxygenated heart: p21 and miR-21. Ed. Turner, NA. *The Cardiac Fibroblast*: ISBN: 978-81-308-0435-4. In press.

## Poster Presentations

**Kawata M, Shah N, Woodfield C, Murphy B, Husain S, Pricolo V.** Posterior Pelvic Floor Dysfunction: A Comparison of Defecography, MRI and Anorectal Physiology. American Society of Colon and Rectal Surgeons 2010 annual meeting, Minneapolis, MN.

**Box D, Nagel R, Way D, Harzman AE.** Cross-Platform adaptation and validation of laparoscopic skills tasks: Some tasks are robust across platforms. SAGES/CAGS 12th World Congress of Endoscopic Surgery, National Harbor, MD, April 14-17, 2010.

**Memark VR, Shah NR, Nau PN, Hall CR, Volckmann ET, Dettorre RR, Needleman BJ, Melvin WS, Hazey JW.** Transgastric diagnostic peritoneoscopy with laparoscopic assistance using a novel flexible toolbox for advanced minimally invasive procedures: An initial evaluation. SAGES/CAGS 12th World Congress of Endoscopic Surgery, National Harbor, MD, April 14-17, 2010.

**Volckmann ET, Firat O, Shah NR, Mikami DJ, Hall CR, Memark VR, Needleman BJ.** Effects of different types of staple line reinforcement on tissue handling and slippage during laparoscopic stapling. SAGES/CAGS 12th World Congress of Endoscopic Surgery, National Harbor, MD, April 14-17, 2010.

**Hall C, Shah N, Volckmann E, Memark V, Haas A, Melvin WS, Mikami D, Needleman B.** A randomized control study to compare a new valveless trocar with a conventional trocar in morbidly obese patients. SAGES/CAGS 12th World Congress of Endoscopic Surgery, National Harbor, MD, April 14-17, 2010.

**Kawata M, Shah N, Woodfield C, Murphy B, Husain S, Pricolo V.** Posterior Pelvic Floor Dysfunction: A Comparison of Defecography, MRI and Anorectal American Society of Colon and Rectal Surgeons 2010 annual meeting, Minneapolis, MN.

## International Presentations

**Melvin WS.** Human Cadavers for Surgical Skills Training. Keynote Lecture, 22nd Annual Meeting of the Japanese Society for Endoscopic Surgery, Tokyo, Japan. December 4, 2009.

**Melvin WS.** Esophageal Cancer, Minimally Invasive Approach. JSES/SAGES Joint Panel. 22nd Annual Meeting of the Japanese Society for Endoscopic Surgery, Tokyo, Japan. December 4, 2009.

**Melvin WS.** Advances in The Treatment of Gastroesophageal Reflux. The University of Sao Paulo, Sao Paulo, Brazil. June 16, 2010.

**Mikami DJ.** United State Minimally Invasive Fellows Surgery Symposium . Elancourt, France. July 2009.

**Mikami DJ.** The Evolution of Endoluminal Bariatric Surgery. The Brazil Society of Bariatric Surgery Annual Meeting. Sao Paulo, Brazil. November 9-10, 2009.

**Mikami DJ.** The Evolution of Endoluminal Treatment of GERD. Siro-Libenese Hospital. Sao Paulo, Brazil. June 17, 2010.

**Needleman BJ.** 5th Chinese Congress on Perioperative Medicine in Integrated Traditional and Western Medicine. Endoluminal Surgery, The First Affiliated Hospital of Zhejiang Chinese Medical University Hangzhou, China May 15, 2010.

## National Presentations

**Harzman AH, Box D.** Poster Presenter. 2010. Cross-platform adaptation and validation of laparoscopic skills tasks: Some tasks are robust across platforms. Presented at 12th World Congress of Endoscopic Surgery. National Harbor, MD. (April 14 - 17) [Peer Reviewed]

**Hazey J.** SAGES 2010 Flexible Endoscopy Post Graduate Course. Endolumenal/NOTES Hands-On Course: Transoral Incisionless Fundoplication. Plantation, MD. April 15, 2010.

**Hazey J.** Faculty, NOTES and Single Incision Laparoscopy Annual Symposium, University of California at San Diego, CA. November 19-21, 2009.

**Hazey J.** American College of Surgeons, Flexible Endoscopy Post-Graduate Course Faculty, ACS Annual Meeting, Chicago, IL. October 12, 2009.

**Hazey J.** Masters Hernia Course Director, Covidien, Las Vegas, NV. August 5,6 2009.

**Hazey J.** University of Wisconsin, Advanced Hernia Course. May 28, 29 2009.

**Hazey J.** SGNA National Meeting. St Louis, MO. When a Simple Cholecystectomy Isn't So Simple. June 1, 2009.

**Husain S.** Ischemic Colitis and Acute Hemorrhage". 96th Annual Clinical Congress of American College of Surgeons. 2010. Washington, DC.

**Khanna S.** Seminar: OSUN spring seminar series, Natural Vitamin E Tocotrienol Against Stroke, Newark, OH. May 14, 2010.

**Khanna S.** Annual meeting of the Oxygen Club of California, Santa Barbara, CA. Feb 17-20, 2010.

**Khanna S.** International Conference on Advances in Free Radicals & Natural Products, Antioxidants and Radioprotectors in Health and 9th Annual Meeting of the Society of Free Radical Research India, Hyderabad, India, January, 11-13, 2010.

**Khanna S.** Society for Neuroscience 39th Annual Meeting, Chicago, IL, October 17-21, 2009.

**Melvin WS.** Endoluminal Fundoplication for Reflux. American College of Surgeons, 95th Annual Clinical Congress, Chicago, IL. October 13, 2009.

**Melvin WS.** Endoluminal Foregut: Established and Upcoming Technology . Society of American and Gastrointestinal and Endoscopic Surgeons, Washington, D.C. April 16, 2010.

**Melvin WS.** Endoluminal Treatments of Reflux. Society of Surgery of the Alimentary Tract, DDW, New Orleans. LA. May 2, 2010.

**Melvin WS.** Modern Therapy for the Treatment of Gastroesophageal Disease. The Roy D. McClure Lecturer and Visiting Professor in Surgery. The Henry Ford Hospital. June 10, 2009, Detroit, MI.

**Melvin WS.** Endoluminal Fundoplication for Reflux. American College of Surgeons, 95th Annual Clinical Congress, Chicago, IL. October 13, 2009.

**Melvin WS.** Transgastric Surgery. The University of California , San Diego NOTES Symposium. San Diego CA. November 19, 2009.

**Melvin WS.** The Future of Minimally Invasive Surgery. Invited Lecturer. Albert Einstein Medical School Department of Surgery, 26th Annual Controversies, Techniques and Problems in Surgery, New York City, N.Y. December, 11, 2009.

**Melvin WS.** New Approaches for Gastroesophageal Reflux. University of Wisconsin, Update in General Surgery. June 4th, 2010. Madison, WI.

**Mikami DJ.** Course Faculty. Endoluminal Gastric Pouch and Stomal Revisions. The American Society of Metabolic and Bariatric Surgery. Las Vegas, NV. June 24, 2010.

**Mikami DJ.** The University of Hawaii Minimally Invasive Surgery Symposium. Queens Medical Center. Honolulu, HI. 02/19-21/2010.

**Nau P, Anderson, J, Needleman, BJ, Ellison, CE, Melvin WS, Hazey JW.** An Alternative Approach to Peritoneal Insufflation: NOTES Oral Presentation, NOSCART, Boston, MA. July, 2009. Best Abstract Award.

**Roy, S.** Oral presentation, Sashwati Roy, AHA Scientific Sessions 2009, Orlando, FL. Nov. 14-18, 2009.

**Sen CK.** Keynote speaker, 7th Indo-Italian Workshop on Chemistry and Biology of Antioxidants, Rome, Italy. June 29-July 3, 2010.

**Sen CK.** Invited Speaker, Technologies in Plastic Surgery (TIPS), San Francisco, CA. March 22-24, 2010.

**Sen CK.** President's Address, Oxygen club of California, Santa Barbara, CA. March 16-21, 2010.

**Sen CK.** Visiting Professor, Presidency College, Calcutta, India. December 23, 2009.

**Sen CK.** Invited Lecturer, NSF Indo-USA Science & Technology Forum, Gurgaon, India. December 18-20, 2009.

**Sen CK.** Invited Lecture, "Wound Healing: Science and Industry" in St. Thomas, US Virgin Islands. December 11-13, 2009.

**Sen CK.** Plenary Lecture, PIPOC conference, Kuala Lumpur, Malaysia. Nov 8-13, 2009.

**Sen CK.** Plenary Lecturer, Clinical Conference on Stroke and Countermeasures, Lagos. Nigeria, Oct 12-16, 2009.

**Sen CK.** Invited Speaker, Society for Free Radical Research- Europe, Rome, Italy. August 29, 2009.

**Sen CK.** Invited Lecture, 34th FEBS Congress, Prague, Czech Republic. July 6, 2009.

**Shah NR, Hodges CT, Memark VR, Volckmann ET, Hall CR, Needleman BJ, Mikami DJ, Hazey JW, Melvin WS, Narula VK.** A comparison of outcomes in open versus laparoscopic surgical repair of recurrent inguinal hernias. SAGES/CAGS 12th World Congress of Endoscopic Surgery, National Harbor, MD. April 14-17, 2010.

## Miscellaneous Presentations

**Harzman AE.** Presenter. 2009. Is there a role for surgery in metastatic colorectal (including appendiceal) cancer? Presented at Gastrointestinal Cancers 2009: A multidisciplinary approach to prevention, diagnosis and treatment. Columbus, OH. (October 3)

**Harzman AE.** Lecturer. 2010. Benign Anorectal Disease. Presented at Department of Surgery Grand Rounds, to Department of Surgery. The Ohio State University. Columbus, OH. (April 8) [Peer Reviewed]

**Hazey J.** Director, SAGES Flexible Endoscopic Surgery Course for MIS Fellows. The Ohio State University, Columbus, OH. November 12-13, 2009.

**Hazey J.** SAGES Advanced Laparoscopic Bariatric and Foregut Surgery Workshop. Ethicon Endo-Surgery Institute, Cincinnati, OH. May 20-21, 2010.

**Hazey J.** Central Ohio Perianesthesia Nursing Association, Local Presentation. When a Simple Cholecystectomy Isn't so Simple, Columbus, OH. October 3, 2009.

**Hazey J.** SAGES Flexible Endoscopic Surgery Course for MIS Fellows. Case Western Reserve University, Cleveland, OH. September 24-25, 2009.

**Hazey J.** Director, SAGES Basic Endoscopy and Laparoscopy Course for Residents. Ethicon Endo-Surgery Institute, Cincinnati, OH. August 13-14, 2009.

**Mikami DJ.** Minimally Invasive Hernia Repair. The Ohio State University, Minimally Invasive Surgery, Columbus, OH. August 15, 2009.

**Mikami DJ.** Course Instructor. SAGES Endoscopy Course. Society American Gastrointestinal Endoscopic Surgeons (Los Angeles, CA), SAGES, Cincinnati, OH, August 12, 2009.

**Mikami DJ.** Course Instructor. Approaches to Endoluminal Reflux Procedures. The Ohio State University, New Approaches in Minimally Invasive Surgery, Columbus, OH, August 7, 2009.

**Mikami DJ.** New Approaches in Minimally Invasive surgery. The Ohio State University (Columbus, OH), New Approaches to Revisional Bariatric Surgery, Columbus, OH, August 6, 2009.

**Mikami DJ.** SAGES Basic Laparoscopy for Residents. Cincinnati, OH, August 20, 2010.

**Mikami DJ.** Minimally Invasive Hernia Repair. Course Director. The Ohio State University Medical Center. Columbus, OH. 5/14/2010.

**Perry KA.** Evaluation and Management of Benign and Malignant Esophageal Disease. Senior Resident Professor Conference, Department of Surgery, The Ohio State University, Columbus, OH, 2009.

**Perry KA.** Complications of Endoscopic Therapy. SAGES Basic Laparoscopy and Endoscopy Course for Residents, Ethicon Endosurgery Inc., Cincinnati, OH, 2009.

**Perry KA.** The Spleen. Senior Resident Professor Rounds, Department of Surgery, The Ohio State University, Columbus, OH, 2009.

**Perry KA.** Abdominal Wall Hernias. Senior Resident Professor Rounds, Department of Surgery, The Ohio State University, Columbus, OH, 2009.

**Perry KA.** Esophagus & Diaphragmatic Hernia. Junior Resident Basic Science Lecture Series, The Ohio State University, Columbus, OH, 2010.

**Roy, S.** Seminar Lecturer. Integrated Biomedical Graduate Program 797.01, The Ohio State University, Columbus, OH, Nov. 5, 2009.

**Roy, S.** Guest Lecturer. IDHLRI Lecture Series Research and Progress, The Ohio State University, Columbus, OH, October 29, 2009.

**Roy, S.** Seminar Instructor. Human Nutrition Graduate Program, The Ohio State University, Columbus, OH, October 14, 2009.

**Sen CK.** Inaugural Address, Advances in Wound Care, Columbus, Ohio March 27, 2010.

**Sen CK.** Keynote Address, Heal Ohio 2009 Conference, Showcasing Emerging Wound Care, Technologies and Treatments, in Rootstown, Ohio, October 22, 2009.

**Sen CK.** Guest Speaker. Center for Genomic Sciences, Allegheny-Singer Research Institute, Allegheny General Hospital, Pittsburgh, PA, July 27, 2009.

**Schlanger R.** Med III Surgery Clerkship Didactic Teaching, "Common Life-Threatening Disorders," Doan Hall, OSU Medical Center, Columbus, OH, July 6, 2009.

**Schlanger R.** Family Practice Physician meeting, Short presentation on the Comprehensive Wound Care Center, Rardin Family Practice Office, Columbus, OH, August 5, 2009.

**Schlanger R.** Clinical Skills Immersion Experience, Pericardiocentesis procedure. Hamilton Hall, OSU Medical Center, Columbus, OH, August 25, 2009.

**Schlanger R.** Principles of Wound Healing and Hyperbaric Medicine, "Physiology, Contraindications, Carbon Monoxide & Cyanide Poisoning, Arterial Gas Embolism and Decompression Sickness," the Blackwell Hotel, Columbus, OH. Sponsored by the National Healing Corporation. September 17, 2009.

**Schlanger R.** Ohio Council on Home Care, "Active Treatment Modalities for Chronic Ulcers," The Greater Columbus Convention Center. September 24, 2009.

**Schlanger R.** Infection Prevention & Control Symposium, "Diving into Advanced Wound Care," UNOH Event Center, Lima, OH. Sponsored by St. Rita's Medical Center. October 8, 2009.

**Schlanger R.** 20th Annual Statewide Geriatric Medicine Conference: Improving the Health of Our Elders, "Soft Tissue Infections." Sponsored by the University of Toledo Center for Continuing Medical Education. Salt Fork Resort & Conference Center, Cambridge, OH, October 16-18, 2009.

**Schlanger R.** Nursing Grand Rounds, "Peripheral Artery Disease," The Ohio State University Medical Center East, Columbus, OH, October 29, 2010.

**Schlanger R.** Med III Surgery Clerkship Didactic Teaching, "Common Life-Threatening Disorders," Doan Hall, OSU Medical Center, Columbus, OH, November 2, 2009.

**Schlanger R.** Presentation to Radiation Oncology faculty, "Hyperbaric Oxygenation Therapy," The Ohio State University James Cancer Hospital, Columbus, OH. December 18, 2009.

**Schlanger R.** Presenter. Necrotizing Infections. Presented at Med Net 21. Ohio State University Medical Center. Columbus, OH, USA. January, 2010.

**Schlanger R.** Grand Rounds, The Ohio State University Department of Internal Medicine, "Advances in Wound Care." The Heart and Lung Research Institute. January 21, 2010.

**Schlanger R.** Ohio Department of Aging, “Finer With Age Interview” for monthly TV show. The Ohio Government Television station, Statehouse, Columbus, OH, February 11, 2010.

**Schlanger R.** Advances in Wound Care and HBO Update 2010, “Impacts of Fistulas and Treatments,” and Moderator for Panel Discussion, The Ohio State University Medical Center and OSU Comprehensive Wound Center, Columbus, OH, March 27, 2010.

**Schlanger R.** Basic Science Resident Lecture, Professor Conference, “Preoperative and Postoperative Care,” The Ohio State University Medical Center, Columbus, OH, May 6, 2010.

**Schlanger R.** National Healing Corporation Course, monthly presentation for physicians, nurses and allied health professionals, “Growth Factors” and “Diabetic Foot Ulcers and Offloading,” The Blackwell Center, Columbus, OH, May 25, 2010.

**Schlanger R.** Presenter. Soft Tissue Infections in the Elderly. Presented at Annual Statewide Geriatric Medicine Conference. Salt Fork Conference Center. Cambridge, OH, USA. October 16 - 18, 2009.

**Schlanger R.** Chair. Diving and Advanced Wound Care. Presented at Infection Prevention and Control Symposium. St. Rita’s MC. Lima, OH, USA. October 8, 2009.

**Schlanger R.** National Healing Corporation Course, monthly presentation for physicians, nurses and allied health professionals, “Growth Factors” and “Diabetic Foot Ulcers and Offloading,” The Blackwell Center, Columbus, OH. May 25, 2010.

**Schlanger R.** National Healing Corporation Course, monthly presentation for physicians, nurses and allied health professionals, “Growth Factors” and “Diabetic Foot Ulcers and Offloading.” The Blackwell Center, Columbus, OH. June 15, 2010.

**Schlanger R.** Grand Rounds, “Wound Care and Cancer,” Wallace Auditorium, The Ohio State University Medical Center, East, Columbus, OH. June 25, 2010.



# Pediatric Surgery



**Donna A. Caniano, M.D.**  
Chief, Division of Pediatric Surgery

**T**he Division of Pediatric Surgery conducts its clinical, educational, research, and academic programs at the Nationwide Children's Hospital, the fourth busiest and fifth largest children's hospital in the United States. For the fifth consecutive year, Nationwide Children's Hospital was included in the 2010 edition of *U.S. News & World Report* of best children's hospitals, ranking in seven of ten categories: gastroenterology, heart and heart surgery, pulmonary care, urology, cancer, neonatology, and kidney services.

Construction is on schedule for the replacement hospital which will open in 2012 as a 12-story, 700,000 square foot facility that includes new inpatient units, a state-of-the-art emergency department, connectivity to the recently built operating room suites, and innovative family-centered services. Groundbreaking occurred this past spring for the third research building, which will add significantly to the current clinical and basic science laboratories.

The Level-I Pediatric Trauma Program received re-accreditation by the American College of Surgeons in February 2010, with a commendation for excellence in collaboration within the institution and a vigorous quality improvement system. The trauma and burn programs remain among the busiest in the nation among children's hospitals, with 1582 admissions in 2009.

The Pediatric Surgical Research Laboratory, directed by Dr. Gail Besner and Dr. David Brigstock, is supported by five NIH grants that fund basic science and translational research in growth factor biology. This year Dr. Besner received permission by the Food and Drug Administration to undertake Phase I clinical trials of heparin-binding EGF-like growth factor (HB-EGF) in human volunteers. Assuming a safety profile, the ultimate goal will be to administer HB-EGF to at-risk premature infants as a protective measure against the development of necrotizing enterocolitis. Dr. Brigstock and his research team developed and validated a model of alcoholic pancreatitis in mice that will be the basis of a new area of translational investigation.

The Adolescent Bariatric Surgery Program, in collaboration with Nationwide Children's Hospital Center for Healthy Weight and Nutrition, remains one of the busiest in the nation. Over 75 adolescents with morbid obesity and associated cardiovascular and metabolic derangements have undergone weight reduction procedures. The program is an active participant in on-going multi-center NIH-funded clinical trial that prospectively enrolls adolescents with morbid obesity, assesses their comorbid conditions, and evaluates their outcomes after a bariatric operation.

Dr. Jennifer Aldrink joined the Division of Pediatric Surgery this year as an assistant professor of Clinical Surgery. In 2009 she completed the residency in pediatric surgery at Nationwide Children's Hospital and received her general surgery training at Duke University Medical Center. She was appointed the director of Surgical Oncology for Nationwide Children's Hospital, with special interest in thyroid cancer and melanoma.

Dr. Gail Besner, program director of the residency in pediatric surgery, remains a member of the Center for Perinatal Research of the Research Institute at Nationwide Children's Hospital. This year she represented Nationwide Children's Hospital as the invited speaker at the Circle of Care North American Leadership Conference in Atlanta, Georgia. Her talk was entitled, "Big News for Small Intestines", highlighting her research on necrotizing enterocolitis.

Dr. David Brigstock is a principal investigator in the Center of Cell and Vascular Biology of the Research Institute at Nationwide Children's Hospital, continuing his work on connective tissue growth factor (CTGF) and its relation to fibrosis of the liver and pancreas. This year Dr. Brigstock became a member of the Society of University Surgeons, and remains a U.S. editor of *The Journal of Endocrinology*.

Dr. Donna Caniano received the Jimmy Crum Labor of Love Award in recognition of her philanthropic activities and work with children with disabilities. The general surgery residency program at Riverside Methodist Hospital honored her with a Lifetime Educator Award. She continues service on the editorial boards of *The Journal of Pediatric Surgery* and *Pediatric Surgery International*.

Dr. Renata Fabia was appointed the director of the Pediatric Burn Program. This year she introduced the clinical innovation of nurse-initiated burn fluid resuscitation protocols for critically ill children with thermal injuries.

Dr. Jonathan Groner, medical director of the Level I pediatric trauma program, was an invited speaker at the 17<sup>th</sup> Annual Trauma Symposium at Memorial Healthcare System and University of Miami Miller School of Medicine in Miami and at the 6<sup>th</sup> Annual Advocate Injury Institute Symposium in Chicago. He also served as a moderator for the Seventh International Conference on Pediatric Trauma, sponsored by the Kiwanis Pediatric Trauma Institute, in Puerto Rico. He continues as an invited reviewer for several peer-reviewed surgical journals.

Dr. Brian Kenney continues as director of the Nationwide Children's Hospital fellowship in pediatric surgical critical care. This year he was appointed as the Surgical Director for Quality at Nationwide Children's Hospital. He is also a member of the Solutions for Patient Safety of the Ohio Hospital Association and the Ohio Children's Hospital Association.

Dr. Denis King continues as medical director of Nutrition Support Services. This year he received two awards from the OSU College of Medicine in recognition of his outstanding service as a faculty educator: (1) the Lifetime Achievement Award for distinction throughout his career in the education of medical students and residents in surgery; and (2) the 2010 "Excellence in Teaching Award" from the Department of Surgery.

Dr. Marc Michalsky is the surgical director of the Center for Healthy Weight and Nutrition at Nationwide Children's Hospital. Under his leadership the Adolescent Bariatric Surgery Program is recognized for its clinical excellence and participation in multi-disciplinary research. This year he was appointed chairman of the Pediatric Bariatric Committee for the American Society for Metabolic and Bariatric Surgery.

Dr. Benedict Nwomeh continues as the surgical director for the Center for Pediatric and Adolescent Inflammatory Bowel Disease at Nationwide Children's Hospital. This year he received a Master of Public Health, having completed the MPH program for experienced health professionals at the OSU College of Public Health.

Dr. Steven Teich remains the surgical director of the Neonatal Intensive Care Unit at Nationwide Children's Hospital. This year he began the first of a two-year term as president of the medical staff. He collaborated with Dr. Carlo DiLorenzo and Dr. Hayat Mousa, pediatric gastrointestinal motility experts in the Department of Pediatrics, in launching a gastric pacing program for children and adolescents with gastroparesis. Nationwide Children's Hospital is one of only two programs in the US that offers this treatment in pediatric patients.

In our graduate programs, Dr. Dorothy Rocourt completed the residency in pediatric surgery. In September 2010 she joins the Division of Pediatric Surgery at the Pennsylvania State University College of Medicine as an Assistant Professor of Surgery and an attending pediatric surgeon at the Milton S. Eshelman Medical Center, Hershey, Pa. Dr. David Skarda will begin the chief residency in pediatric surgery. Dr. Helena Crowley, who completed a residency in general surgery at Tufts University Medical Center, will begin the residency in pediatric surgery. Dr. Johanna Askegard-Giesmann completed the fellowship in pediatric surgical critical care and returned to the Mayo Clinic in Rochester, Minnesota as a chief resident in general surgery. She will begin the residency in pediatric surgery at Nationwide Children's Hospital in July 2011. Dr. Erin Teeple completed a fellowship in minimally invasive and pediatric bariatric surgery and returned to the Christiana Care Health Services in Newark, Delaware as a senior resident in general surgery.

The members of the Division of Pediatric Surgery are committed to the educational, research, clinical and service missions of the Department of Surgery, The Ohio State University College of Medicine, Nationwide Children's Hospital, and numerous professional organizations.

## Faculty

### **Donna A. Caniano, M.D.**

Professor of Surgery; Chief, Division of Pediatric Surgery; the H. William Clatworthy, Jr. Professor in Pediatric Surgery

**B.A.:** Vassar College, Poughkeepsie, N.Y., 1972

**M.D.:** Albany Medical College, Albany, N.Y., 1976

**Specialty Training:** Albany Medical Center Hospital, Albany, N.Y.; Johns Hopkins University Hospital, Baltimore, Md.; Columbus Children's Hospital, Columbus, Ohio

**Appointment:** 1985

**Specialty Interests:** Neonatal gastrointestinal disorders, Hirschsprung's disease

**Research Interests:** Biomedical ethics



*Caniano*

### **Jennifer H. Aldrink, M.D.**

Assistant Professor of Clinical Surgery

**B.A.:** Wake Forest University, Winston-Salem, N.C., 1995

**M.D.:** East Carolina University School of Medicine, Greenville, N.C., 2000

**Specialty Training:** Duke University Medical Center, Durham, N.C.; Nationwide Children's Hospital, Columbus, Oh.

**Appointment:** 2009

**Research Interests:** Osteosarcoma pulmonary metastases, childhood malignancy and obesity, childhood melanoma, gastroschisis



*Aldrink*

### **Gail E. Besner, M.D.**

Professor of Surgery

**B.A.:** Cornell University, Ithaca, N.Y., 1978

**M.D.:** University of Cincinnati, Cincinnati, Oh., 1982

**Specialty Training:** Brigham and Women's Hospital, Boston, Mass.; Children's Hospital of Buffalo, Buffalo, N.Y.

**Appointment:** 1991

**Specialty Interests:** Burns, pediatric laparoscopic surgery

**Research Interests:** Growth factor involvement in wound healing



*Besner*

### **David R. Brigstock, Ph.D.**

Associate Professor of Surgery

**B.S.:** Brunel University, West London, United Kingdom, 1984

**Ph.D.:** Cambridge University, Cambridge, United Kingdom, 1988

**Specialty Training:** Harvard University, Cambridge, Ma.

**Appointment:** 1991

**Research Interests:** Biology of connective tissue growth factor



*Brigstock*

**Renata B. Fabia, M.D., Ph.D.**

Assistant Professor of Clinical Surgery

**M.D.:** Silesian University School of Medicine, Katowice, Poland, 1985

**Ph.D.:** Lund University, Lund, Sweden, 1993

**Specialty Training:** The Ohio State University, Columbus, Oh.; Children's Medical Center, Dallas, Tx.

**Appointment:** 2003

**Specialty Interests:** General surgery in children and adolescents; burn and trauma management

**Research Interests:** Inflammatory bowel disease, trauma



*Fabia*

**Jonathan I. Groner, M.D.**

Professor of Clinical Surgery

**B.S.:** Northwestern University, Evanston, Ill., 1982

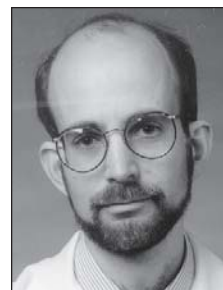
**M.D.:** Northwestern University, Evanston, Ill., 1984

**Specialty Training:** Medical College of Wisconsin, Milwaukee, Wi.; Children's Hospital, Columbus, Oh.

**Appointment:** 1999

**Specialty Interests:** Trauma, child advocacy

**Research Interests:** Trauma prevention



*Groner*

**Brian D. Kenney, M.D., M.P.H.**

Assistant Professor of Clinical Surgery

**B.A.:** University of Notre Dame, South Bend, In., 1979

**M.D.:** Medical College of Ohio, Toledo, Oh., 1983

**M.P.H.:** Harvard University School of Public Health, Boston, Ma., 1990

**Specialty Training:** University of Montreal, Montreal, Quebec, Canada

**Appointment:** 2003

**Specialty Interests:** Laparoscopy, thoracoscopy, critical care, and thoracic surgery

**Research Interests:** Clinical epidemiology and outcomes research



*Kenney*

**Marc P. Michalsky, M.D.**

Associate Professor of Clinical Surgery

**B.A.:** Brandeis University, Waltham, Mass., 1988

**M.D.:** University of Medicine and Dentistry of New Jersey, Newark, N.J., 1992

**Specialty Training:** University of Medicine and Dentistry of New Jersey, Newark, N.J.; Columbus Children's Hospital, Columbus, Oh.

**Appointment:** 2004

**Specialty Interests:** Minimally invasive surgery, childhood obesity

**Research Interests:** Childhood obesity, quality performance, surgical outcomes



*Michalsky*

**Benedict C. Nwomeh, M.D.**

Associate Professor of Clinical Surgery

**Undergraduate Degree:** Faculty of Science, University of Lagos, Lagos, Nigeria, 1981

**M.D.:** College of Medicine, University of Lagos, Lagos, Nigeria, 1986

**Specialty Training:** Medical College of Virginia, Virginia Commonwealth University, Richmond, Va.; Children's Hospital of Pittsburgh, Pittsburgh, Pa.

**Appointment:** 2003

**Specialty Interests:** Pediatric general surgery, neonatal surgery, pediatric minimally invasive surgery, pediatric thoracic surgery

**Research Interests:** Surgical education, clinical outcomes



*Nwomeh*

## Emeritus Faculty

**E. Thomas Boles, Jr., M.D.**

Professor Emeritus of Surgery

**B.S.:** College of William and Mary, Williamsburg, Va., 1942

**M.D.:** Harvard University, Cambridge, Ma., 1945

## Clinical Faculty

**Denis R. King, M.D.**

Clinical Associate Professor of Surgery

**B.S.:** University of Notre Dame, South Bend, In., 1965

**M.D.:** Hahnemann Medical College, Philadelphia, Pa., 1969

**Specialty Training:** The Ohio State University Hospital; Children's Hospital, Columbus, Oh.

**Specialty Interests:** Cancer, nutrition

**Research Interests:** Pediatric oncology

**Steven Teich, M.D.**

Clinical Associate Professor of Surgery

**B.S., M.S.:** Rensselaer Polytechnic Institute, Troy, N.Y., 1976

**M.D.:** State University of New York at Buffalo, N.Y., 1981

**Specialty Training:** George Washington University Medical Center, Washington, D.C.; Children's Hospital of Pittsburgh, Pa.

**Specialty Interests:** Epidermolysis bullosa, burns, laparoscopic surgery

**Research Interests:** Quality improvement and surgical clinical pathways

## Resident Staff

### **Dorothy V. Rocourt, MD**

Clinical Instructor and Chief Resident

**B.A.:** Dartmouth College, Hanover, N.H., 1995

**M.D.:** University of Medicine and Dentistry of New Jersey, Newark, N.J., 1999

### **David E. Skarda, MD**

Clinical Instructor and Assistant Chief Resident

**B.S.:** Brigham Young University, Provo, Ut., 1997

**M.D.:** Albert Einstein College of Medicine, Bronx, N.Y., 2001

### **Johanna R. Askegard-Giesmann, MD**

Surgical Critical Care Fellow

**B.A.:** University of Minnesota, Minneapolis, Mn., 1999

**M.D.:** Finch University of Health Sciences – The Chicago Medical School, Chicago, Il., 2004

### **Erin A. Teeple, MD**

MIS/Bariatric Fellow

**B.S.:** Lafayette College, Easton, Pa., 1999

**M.D.:** Jefferson Medical College, Philadelphia, Pa., 2005

## Mission

The Division of Pediatric Surgery, in alignment with Nationwide Children's Hospital, is dedicated to fulfilling the CARES mission: providing the highest quality of care, advocacy for children, child health research, education, and outstanding service.

## Research Programs

The Pediatric Surgery Research Laboratory focuses on two major areas of clinical interest. Dr. Besner's laboratory studies heparin-binding EGF-like growth factor (HB-EGF) and its ability to protect the intestines from various forms of injury. These research projects continue to be funded by the National Institutes of Health, as well as by industry, and include:

- Elucidation of the mechanisms by which HB-EGF exerts its protective effects against intestinal injury.
- Studies of the effect of HB-EGF on intestinal stem cells.



- Studies of susceptibility to intestinal injury in HB-EGF transgenic and knockout mice.
- Determination of the signal pathways used by HB-EGF in intestinal cytoprotection.
- Studies of the effects of HB-EGF in several established animal models of intestinal injury.
- Design of HB-EGF clinical trials in the prevention of necrotizing enterocolitis in preterm infants.

The second area of interest is the role played by connective tissue growth factor (CTGF) in scarring and fibrosis. These studies are led by Dr. Brigstock and focus on the fibrotic properties of CTGF, including novel strategies for antagonizing CTGF action *in vivo*. Current areas of emphasis include:

- Characterization of CTGF receptors and signaling pathways in hepatic or pancreatic stellate cells.
- Production of transgenic mice that overexpress CTGF in the liver.
- Anti-CTGF targeting strategies in the liver and pancreas.

## Accomplishments in Research

### **Gail E. Besner, M.D.**

The Besner laboratory has had significant accomplishments this year. Dr. Besner currently holds three R01 grants from the NIH to continue her basic science research on HB-EGF. In conjunction with her biotechnology contacts, human-grade HB-EGF has been produced and permission from the FDA to begin Phase I trials of HB-EGF in humans has been obtained. Dr. Besner's research was presented at multiple national meetings this year, including a plenary session presentation at the annual Academic Surgical Congress given by surgery resident Iyore Otabor James from Dr. Besner's laboratory. Dr. James received a Masters in Medical Science degree upon completion of her training in Dr. Besner's laboratory this year. Many publications have resulted from this year's work. Dr. Besner was the co-moderator of an International Necrotizing Enterocolitis Webcast hosted by Nationwide Children's Hospital and Rainbow Babies Hospital.

### **David R. Brigstock, Ph.D.**

Dr. Brigstock continues his NIH-funded studies of the role of connective tissue growth factor (CTGF) in organ fibrosis. He holds two NIH R01 grants to support his work on CTGF-mediated fibrogenic pathways in the liver and pancreas. He also is the recipient of a NCH-OSU collaborative grant with Dr. Ramesh Ganju to study the role of CTGF in HIV/HCV-mediated hepatic pathology as well as a 2-year NIH ARRA supplement to support the summer lab training of Mr Todd Martin, an 8<sup>th</sup> grade science teacher at The Columbus Academy, Gahanna OH. Dr. Brigstock's work on CTGF-mediated alcoholic fibrosis was presented the annual meetings of the American Association for the Study of Liver Dis-

eases in Boston in November 2009 and of the American Society for Cell Biology in San Diego in December 2009. Dr Brigstock was an invited speaker on CTGF-based anti-fibrotic therapy at Experimental Biology 2010 in Anaheim, Ca., in April 2010. Alyssa Charrier, a MCDB graduate student working in Dr. Brigstock's lab, received a 1<sup>st</sup> place graduate student award for her presentation entitled "Connective tissue growth factor production by activated pancreatic stellate cells in mouse alcoholic chronic pancreatitis" at the 15<sup>th</sup> Annual Department of Surgery Research Conference at OSU in May 2010 (see Lab Invest (2101) **90** 1179-1188). Dr Brigstock was elected to membership of the Society of University Surgeons and served as an ad hoc reviewer for research grants submitted to The Wellcome Trust (UK) and the Council for the Earth and Life Sciences of the Organisation for Scientific Research (The Netherlands).

## Active Research Grants

**Besner GE.** HB-EGF and intestinal ischemia/reperfusion. National Institutes of Health, July 1, 2007 – May 31, 2011, \$1,180,800.

**Besner GE.** HB-EGF and protection of the intestines from injury. Trillium Therapeutics, Inc., April 15, 2009 – April 14, 2010, \$100,000.

**Besner GE.** HB-EGF therapy for necrotizing enterocolitis. National Institutes of Health, July 1, 2007 – May 31, 2012, \$1,800,000.

**Besner GE.** Role of NO and endothelin in human NEC. National Institutes of Health, July 1, 2003 – June 30, 2010, \$1,250,000.

**Besner GE** (Mentor), **Giannone P** (Principal Investigator). Novel therapeutic targets in necrotizing enterocolitis. National Institutes of Health, February 1, 2008 – January 31, 2013, \$791,215.

**Brigstock DR.** Mechanisms of CTGF-induced liver disease. National Institutes of Health (National Institute on Alcohol Abuse and Alcoholism), April 15, 2007 – March 31, 2012, \$1,125,000.

**Brigstock DR.** CTGF in pancreatic stellate cell-mediated fibrogenesis. National Institutes of Health (National Institute on Alcohol Abuse and Alcoholism), September 30, 2007 – August 31, 2012, \$1,125,000.

**Brigstock DR.** Analysis of relationship between CTGF and HCV/HIV-mediated liver pathophysiology. NCH/OSU, \$50,000.

**Michalsky MP.** Adolescent bariatrics: assessing health benefits and risks, or the Teen-Longitudinal Assessment of Bariatric Surgery (TEEN-LABS). National Institute of Diabetes and Digestive and Kidney Diseases, April 1, 2008 – March 31, 2012, \$219,738.

**Michalsky MP.** Adolescent bariatrics: controlled longitudinal study of psychosocial development (TEEN VIEW). National Institute of Diabetes and Digestive and Kidney Diseases, April 1, 2008 – March 31, 2012, \$60,000.

**Michalsky MP.** Dietary intake and eating behavior in adolescents who undergo bariatric surgery. National Institute of Diabetes and Digestive and Kidney Diseases, October 1, 2008 – September 30, 2013, \$72,856.

**Michalsky MP.** Laparoscopic adjustable gastric banding (Lap-Band) as a treatment for morbid obesity in adolescents. Allergan Health, May 1, 2006 – April 30, 2011, \$1,203,532.

**Michalsky MP.** Prediction of outcome of bariatric surgery using the autonomic and enteric nervous systems. Thomas Boles Endowment Fund, October 6, 2008 – October 6, 2013, \$11,600.

## Clinical Programs

- Level I pediatric trauma program with American College of Surgeons verification.
- American Burn Association-verified multidisciplinary pediatric burn center.
- Columbus Fetal Medicine Collaborative in conjunction with The Ohio State University Medical Center, Mount Carmel Health System, and OhioHealth.
- Pediatric and adolescent bariatric surgery program.
- Multidisciplinary ECMO neonatal and pediatric program.
- Minimally invasive pediatric surgery program.
- Chest wall center for comprehensive care of chest wall anomalies.

## Accomplishments in Clinical Care

- Maturation of outpatient care for children with thermal injuries.
- Maturation of the bariatric surgery program for the treatment of morbidly obese adolescents, and participation in a funded clinical trial using the Lap-Band.

- Development of advanced minimally invasive procedures for thoroscopic and laparoscopic management of congenital and acquired lung and intestinal disorders.
- Listing of Dr. Gail E. Besner, Dr. Donna A. Caniano, Dr. Denis R. King, and Dr. Steven Teich by *Best Doctors in America*.

## Clinical Statistics

OR Procedures	4,073
Outpatient Visits	11,264
Admissions	2,069
Patient Days	10,764
Average Length of Stay (Days)	5.20

## Educational Programs

- Two-year residency in pediatric surgery, accredited by the Accreditation Council for Graduate Medical Education. The program accepts one resident per year through the National Residency Match Program. The residency qualifies a candidate for the Certificate of Special Competence in Pediatric Surgery, upon successful completion of the Qualifying and Certifying Examinations in Pediatric Surgery, as given by the American Board of Surgery.
- Fully-accredited, two-year residency in pediatric surgery, which accepts one resident per year through the National Residency Match Program. The residency qualifies a candidate for the Certificate of Special Competence in Pediatric Surgery, upon successful completion of the Qualifying and Certifying Examinations in Pediatric Surgery, as given by the American Board of Surgery.
- Fully-accredited fellowship in pediatric surgical critical care, which annually accepts one resident at the PGY-4 level or higher in general surgery. Completion of the fellowship makes a candidate eligible for the Examination in Surgical Critical Care administered by the American Board of Surgery.
- Clinical fellowships in trauma and clinical research and in minimally invasive and adolescent bariatric surgery for senior level residents in general surgery.
- Basic science research fellowships in the Pediatric Surgical Laboratory for residents in accredited programs in general surgery.

- Comprehensive pediatric surgery rotation in the care of infants, children, and adolescents with surgical disease, for junior and senior residents in general surgery from The Ohio State University Medical Center, OhioHealth, and the Mount Carmel Health System.
- Comprehensive pediatric surgery rotation in the care of pediatric patients for interns in the combined Nationwide Children's Hospital-Doctor's Hospital pediatrics residency and for fellows in the pediatric critical care medicine fellowship at Children's Hospital.
- Clinical clerkship in pediatric surgery.
- Subinternship in pediatric surgery.

## Accomplishments in Education

- Ongoing clinical research in surgical education techniques by Dr. Benedict Nwomeh.
- Ongoing clinical research on optimal communication with parents of pediatric surgical patients by Dr. Benedict Nwomeh.

## Community Outreach Programs

- Injury passenger safety program, part of the Nationwide Children's Hospital trauma program, which concentrates on child safety seats and bicycle helmet.
- Quarterly publication of *Surgical Scene* for pediatricians and primary care physicians in the Central Ohio and referral area. *Surgical Scene* highlights common surgical conditions, their diagnosis, and treatment.
- Regular lectures about pediatric trauma and thermal injury, by physician and nursing members of the Nationwide Children's Hospital trauma program, presented to emergency services personnel in the Central Ohio and referral area.

## Accomplishments in Community Outreach

- Distribution of 2,888 bicycle helmets to children in Central Ohio, in cooperation with the Columbus Blue Jacket Foundation.

- Sponsorship of education and information programs on child safety seats throughout the Columbus community.
- Inspection of 322 child safety seats and distribution of 921 child safety seats through the trauma program of Nationwide Children's Hospital.
- Injury prevention focused on lawn mower injuries and mower safety.
- Total of 12,131 passenger safety interventions in 2009.

## Publications

**Aldrink JH, Selim A, Diesen D, Tyler D, Seigler H.** Pediatric melanoma: A single institution experience of 150 patients. *J Pediatr Surg* 44:1514-1521, 2009.

**Askegard-Giesmann JR, Caniano DA, Kenney BD:** Rare but Serious Complications of Central Line Insertion. *Seminars in Pediatric Surgery* 18: 73-83, 2009.

**Askegard-Giesmann JR, Besner GE, Fabia R, Caniano DA, Preston T, Kenney BD.** Extracorporeal membrane oxygenation as a lifesaving modality in the treatment of pediatric patients with burns and respiratory failure. *J Pediatr Surg.* 2010 Jun;45(6):1330-5.

**Baharestani M, Amjad I, Bookout K, Fleck T, Gabriel A, Teich S et al:** V.A.C Therapy in the management of pediatric wounds: clinical review and experience. *Int Wound J.* Aug; 6 Suppl 1:1-26 2009.

**Brigstock DR.** Connective tissue growth factor (CCN2, CTGF) and organ fibrosis: Lessons from transgenic animals. *J. Cell Comm. Signal* 4 1-4, 2009.

**Brigstock DR.** Inhibitors of connective tissue growth factor (CCN2)-mediated fibrogenesis: Underlying mechanisms and prospects for anti-fibrotic therapy. In "*CCN Proteins in Health and Disease*": Ed B. Perbal, Chapter 14. Springer Publishing pp 183-204, 2010.

**Caniano DA:** Ethical Issues in Pediatric Bariatric Surgery. *Seminars in Pediatric Surgery* 18: 168-175, 2009.

**Charrier A and Brigstock DR.** Connective tissue growth factor production by activated pancreatic stellate cells in mouse alcoholic chronic pancreatitis. *Lab Invest* doi:10.1038/labinvest. 2010.82, 2010.

**Chen C-L, Mehta V, Wu D, Otabor I, El-Assal O, Feng J, Radulescu A, Zhang H-Y, Chen Y, Besner G:** Intestinal Phenotype in Mice Overexpressing a Heparin-Binding EGF-like Growth Factor Transgene in Enterocytes. *Growth Factors* 28:82-97, 2010.

**Chidester S, Rana A, Lowell W, Hayes J, Groner J.** Is the “seat belt sign associated with serious abdominal injuries in pediatric trauma? *J Trauma* 67:S34-36, 2009.

**Christensen RD, Wiedmeier SE, Baer VL, Henry E, Gerday E, Lambert DK, Burnett J, Besner GE:** Antecedents of Bell Stage III Necrotizing Enterocolitis. *J Perinatology*. 30:54-57, 2010.

**Christensen R, Gordon P, Besner G:** Can We Cut the Incidence of Necrotizing Enterocolitis in Half – Today? *Fetal and Pediatric Pathology* 29:1-14, 2010.

**Fabia RF, Arthur LG, Phillips A, Galantowitz ME, Caniano DA:** Complete Bilateral Tracheobronchial Disruption in a Child with Blunt Trauma. *J Trauma* 66: 1478-1481, 2009.

**Fabia R, Groner JI.** Advances in the care of children with burns. *Advances in Pediatrics* 56:219-248, 2009.

**Fabia, R.** Editorial Pre-review of the article. *Journal of Emergencies, Trauma, and Shock*, 2010. (April-May 2010)

**Freeman R, Matas A, Henry M, Segev D, Dixon K, Roberts J.** Moving kidney allocation forward: The ASTS perspective. *Am J. Transplant.* 2009 Jul;9(7): 1501-6.

**Gao R and Brigstock DR.** Connective tissue growth factor hammerhead ribozyme attenuates human hepatic stellate cell function. *World J Gastroenterology* 15 3807-3813, 2009.

**Krishnaswami S, Perkins S, Frost M, Nwomeh B, Simeone D, Nadler E, Orloff S.** International Surgical Efforts within U.S Academic Institutions: Results of a Survey by the AAS/SUS Joint Committee on International Academic Surgery. *J Surg Res.* 2010 Feb;158(2):180.

**Nadler EP, Krishnaswami S, Brundage S, Kim L, Kingham TP, Olutoye O, Nwariaku F, Nwomeh B.** Assessing the Efficacy of the AAS Fundamentals of Research and Career Development Course Overseas. *J Surg Res.* 2010 Feb;158(2):371-2.

**Nwomeh BC, Caniano, DA, Hayes JR, Upperman J, Kelleher KJ:** A Parental Educational Intervention to Facilitate Informed Consent for Emergency Operations in Children. *J Surg Res* 152: 258-263, 2009.

**Nwomeh BC and Caniano DA.** Ethical Considerations in Pediatric Surgery. In: *Pediatric Surgery: Diagnosis and Management*, London: Springer; 2009, p. 109-114.

**Otabor I, Erdman S, Abdessalam S, Besner G:** Gastric Outlet Obstruction due to Adenocarcinoma in a Patient with Ataxia-Telangiectasia Syndrome: Case Report and Review of the Literature. *World Journal of Surgical Oncology* 7:29, 2009.

**Otabor I, Balint J, Besner G:** Myectomy-Myotomy for Long Segment Hirschsprung’s Disease in a Patient with Haddad Syndrome. *J Pediatr Surg* 44:620-622, 2009.

**Otabor I, Besner G:** Burns: Surgical Perspective. In Scoll Plantz (ed): *Pediatrics: E-Medicine*, 2009.

**Radulescu A, Zorko N, Yu X, Besner G:** Preclinical Neonatal Rat Studies of HB-EGF in Protection of the Intestines from Necrotizing Enterocolitis. *Pediatr Res* 65:437-442, 2009.

**Radulescu A, Yu X, Orvets N, Chen Y, Zhang H-Y, Besner G:** Deletion of the Heparin-binding EGF-like Growth Factor Gene Increases Susceptibility to Necrotizing Enterocolitis. *J Pediatr Surg* 45:729-734, 2010.

**Rana AR, Michalsky MP, Teich S, Groner JL, Caniano DA, Shuster DP:** Childhood Obesity: A Risk Factor for Injuries Observed at a Level-I Trauma Center. *J Pediatr Surg* 44: 1601-1605, 2009.

**Sandquist MK, Way DP, Patterson AF, Caniano DA, Arnold MW, Nwomeh BC:** General Surgery Versus Specialty Rotations: A New Paradigm in Surgery Clerkships. *J Surg Res* 153: 152-155, 2009.

**Santin BJ, Prasad V, Caniano DA:** Colonic Diverticulitis in Adolescents: An Index Case and Associated Syndromes. *Ped Surg Int* 25: 901-906, 2009.

**Shi J, Xiang H, Frentz C, Smith GA, Groner J, Wang Z.** Traumatic Brain Injuries Caused by Motor Vehicle Crashes and Falls Among U.S. Children. *Brain Injury* 23:602-611, 2009.

**Teich S, Michalsky M** (eds): Chronic Diseases in Childhood Obesity: Risks and Benefits of Early Intervention, *Seminars in Pediatric Surgery*, Volume 18, Number 3, August 2009.

**Tong Z, Chen R, Kemper S, Perbal B, and Brigstock DR:** Susceptibility to liver fibrosis in mice expressing a connective tissue growth factor transgene in hepatocytes. *Hepatology* 50:939-947, 2009.

**Yu X, Radulescu A, Zorko N, Besner G:** Heparin-Binding EGF-like Growth Factor Increases Intestinal Microvascular Blood Flow in Necrotizing Enterocolitis. *Gastroenterology* 137:221-230, 2009.

**Zhang, H-Y, Radulescu A, Besner G:** Heparin-Binding EGF-Like Growth Factor is Essential for Preservation of Gut Barrier Function after Hemorrhagic Shock and Resuscitation in Mice. *Surgery* 146: 334-339, 2009.

**Zhang H-Y, Radulescu A, Chen Y, Besner G:** Heparin-Binding EGF-like Growth Factor (HB-EGF) Improves Intestinal Microcirculation after Hemorrhagic Shock and Resuscitation in Mice. *J Surg Res* 2010 (EPub ahead of print).

**Zhou Y, Brigstock, D, Besner G:** HB-EGF is a Potent Dilator of Terminal Mesenteric Arterioles. *Microvascular Research* 78:78-85, 2009.



## Abstracts

**Charrier A and Brigstock D:** Connective tissue growth factor localizes to activated pancreatic stellate cells in a model of ethanol-induced pancreatic fibrosis. *Mol Biol Cell* 20 (suppl), 2009.

**Lawrencia C, Brigstock DR:** Resolution of experimental liver fibrosis in mice by targeted delivery of connective tissue growth factor siRNA. *FASEB J.* 23:117.5, 2009.

**Radulescu A, Zhang H-Y, Chen C-L, Chen Y, Zhou Y, Olson J, Besner G:** Expression Levels of Heparin-Binding EGF-Like Growth Factor Affect Intestinal Anastomotic Wound Healing. *J Surg Res*, 158:184-5, 2010.

**Zhou Y, Radulescu A, Chen Y, Besner G:** Deletion of the Heparin-Binding EGF-Like Growth Factor Gene in Mice Impairs Intestinal Transit. *Journal of the American College of Surgeons*, 2009.

**Zhang H-Y, Radulescu A, Chen Y, Besner G:** Heparin-Binding EGF-like Growth Factor (HB-EGF) Improves Intestinal Microcirculation after Hemorrhagic Shock and Resuscitation in Mice. *Journal of the American College of Surgeons*, 2009.

## International Presentations

**Nwomeh B:** Statistics: Describing Data, Fundamentals of Research and Career Development Course, Association for Academic Surgery, Abuja, Nigeria.

## National Presentations

**Aldrink JH, Kenney BD:** Laparoscopic Excision of an Esophageal Duplication Cyst. 19<sup>th</sup> Annual Congress for Endosurgery in Children, Hawaii, June 8-12, 2010.

**Askegard-Giesmann J, Besner G, Fabia R, Caniano D, Preston T, Kenney B:** Extracorporeal Membrane Oxygenation (ECMO) as a Life-Saving Modality in the Treatment of Pediatric Patients with Burns and Respiratory Failure. American Academy of Pediatrics, 2009 National Conference and Exhibition, Washington, DC, October 16, 2009.

**Besner G:** Big News for Small Intestines. Circle of Care North American Leadership Conference, Atlanta, GA, May 13, 2010.

**Besner G:** HB-EGF as a Novel Therapeutic Strategy for NEC. International NEC Webcast, hosted by Rainbow Babies Hospital and Nationwide Children's Hospital, June 17, 2010.

**Brigstock DR:** Connective tissue growth factor in liver fibrosis. Symposium on “Extracellular matrix proteins of the CCN family as therapeutic targets” Experimental Biology 2010. Anaheim, CA, April 24-28, 2010.

**Charrier A and Brigstock D:** Connective tissue growth factor localizes to activated pancreatic stellate cells in a model of ethanol-induced pancreatic fibrosis. 49th Annual Meeting of ASCB, San Diego, CA, Dec 7-11, 2009.

**Chen C-L, Yu Xiaoyi Y, Radulescu A, Otabor I, Besner G:** HB-EGF Protects Intestinal Stem Cells and Epithelial Cell Lineages from Necrotizing Enterocolitis. American Academy of Pediatrics, 2009 National Conference and Exhibition, Washington, DC, October 16, 2009.

**Giles S, Besner G, Lowell W, Xiang H, Haley K.** Attention Deficit Hyperactivity Disorder Increases the Prevalence and Severity of Burn Injuries in Children. Great Lakes Burn Group, Boston, MA, September 2009.

**Giles S, Besner G, Lowell W, Xiang H, Haley K.** Attention Deficit Hyperactivity Disorder Increases the Prevalence and Severity of Burn Injuries in Children. 42nd Annual Meeting of the American Burn Association, Boston, MA, March 2010.

**Hall MW, Nateri J, Groner JJ, Besner GE, Raffel R.** Innate Immune Function and Nosocomial Sepsis After Pediatric Critical Injury. Presented at the Society of Critical Care Medicine 2009, Nashville, TN, January 31, 2009.

**Huang G, Besner GE, Brigstock DR:** HB-EGF gene knockout exacerbates liver fibrosis in mice. 15th Annual International Symposium on Cells of the Hepatic Sinusoid. Pasadena, CA, August 29 - September 1, 2009.

**Huang G, Besner GE, Brigstock DR:** HB-EGF attenuates experimental liver fibrosis and reduces hepatic stellate cell activation. Annual Meeting of AASLD, Boston, MA, Oct 30 – Nov 2, 2010.

**Jiang Y and Brigstock DR:** Cellular localization of connective tissue growth factor in pancreatic fibrosis in mice. In “Non-neoplastic Tissue and Organ Pathobiology”, Experimental Biology 2010. Anaheim, CA, April 24-28 2010.

**Krishnaswami S, Perkins S, Frost M, Nwomeh B, Simeone D, Nadler E, Orloff S.** International Surgical Efforts within U.S Academic Institutions: Results of a Survey by the AAS/SUS Joint Committee on International Academic Surgery. (Annual Academic Surgical Congress), San Antonio TX, February 4, 2010.

**Li C, Leask A, Brigstock D:** Ethanol-mediated connective tissue growth factor (CTGF) mRNA expression and promoter activity in human LX-2 hepatic stellate cells. Annual Meeting of AASLD, Boston, MA, Oct 31 – Nov 3, 2009.

**Nadler EP, Krishnaswami S, Brundage S, Kim L, Kingham TP, Olutoye O, Nwariaku F, Nwomeh B.** Assessing the Efficacy of the AAS Fundamentals of Research and Career Development Course Overseas. Association for Academic Surgery (Annual Academic Surgical Congress), San Antonio TX, February 4, 2010.

**Otabor I, Besner G:** HB-EGF Protects the Lungs from Remote Organ Injury After Intestinal Ischemia/Reperfusion. 5th Annual Academic Surgical Congress, 71st Annual Meeting of the Society of University Surgeons, Plenary Session Presentation, San Antonio, TX, February 2, 2010.

**Radulescu A, Zhang H-Y, Chen C-L, Chen Y, Zhou Y, Yu X, Otabor I, Olson J, Besner G:** Expression Levels of Heparin-Binding EGF-Like Growth Factor Affect Intestinal Anastomotic Wound Healing. 5th Annual Academic Surgical Congress, 71st Annual Meeting of the Society of University Surgeons, San Antonio, TX, February 2, 2010.

**Rocourt DC, Hall M, Kenney BD, Fabia R, Groner JJ, Besner GE.** Respiratory Failure after Pediatric Scald Injury: Does Altered Immune Function Play a Role? Presented at the American Burn Association 41st annual meeting, San Antonio, TX, March 24-27, 2009.

**Zhang H-Y, Radulescu A, Chen Y, Besner G:** Heparin-Binding EGF-like Growth Factor (HB-EGF) Improves Intestinal Microcirculation after Hemorrhagic Shock and Resuscitation in Mice. American College of Surgeons 2009 Congress, Chicago, IL, October 11, 2009.

**Zhou Y, Otabor I, Wetzl A, Besner G:** Heparin-Binding EGF-Like Growth Factor (HB-EGF) Promotes Enteric Neural Crest Cell Migration. American Pediatric Surgical Association, Orlando, FL, May 27, 2010.

**Zhou Y, Radulescu A, Chen Y, Besner G:** Deletion of the Heparin-Binding EGF-Like Growth Factor Gene in Mice Impairs Intestinal Transit. American College of Surgeons 2009 Congress, Chicago, IL, October 11, 2009.

## Miscellaneous Presentations

**Aldrink J.** Common Problems: Lumps, Bumps and Lymphadenopathy. Lecture delivered to Pediatric Associates of Springfield, OH, September 30, 2009.

**Aldrink J.** Renal Tumors. PST Lecture, Nationwide Children's Hospital, Columbus, OH, January 6, 2010.

**Aldrink J.** Surgical Management of Melanoma and Other Skin Lesions in Children. Pediatric Grand Rounds, Nationwide Children's Hospital, Columbus, OH, January 7, 2010.

**Aldrink J.** Cervical Cysts and Sinus, Lounge and Learn Series, Nationwide Children's Hospital, Columbus, OH, April 16, 2010.

**Aldrink J.** Liver Tumors – PST Lecture, Nationwide Children’s Hospital, Columbus, OH, May 12, 2010.

**Besner G.** Physiology of Infection. Pediatric Surgery Tutorial Lecture Series, Nationwide Children’s Hospital, Columbus, OH, June 2, 2010.

**Besner G.** Necrotizing Enterocolitis Update. Pediatrics Grand Rounds, Nationwide Children’s Hospital, Columbus, OH, June 15, 2010.

**Caniano D.** Pediatric Surgery Stories, Dinner With the Docs, Columbus, OH, October 1, 2009.

**Caniano D.** Leadership Ethics, Fellows Leadership Program, Nationwide Children’s Hospital, Columbus, OH, December 2, 2009.

**Charrier A and Brigstock D:** Connective tissue growth factor localizes to activated pancreatic stellate cells in a model of ethanol-induced pancreatic fibrosis. Research Week, Nationwide Children’s Hospital, Columbus OH, April 5-9 2010.

**Charrier A and Brigstock D:** Connective tissue growth factor localizes to activated pancreatic stellate cells in a model of ethanol-induced pancreatic fibrosis. The Ohio State University Medical Center Research Day, Columbus, OH, April 8, 2010.

**Charrier AL Brigstock DR:** Connective tissue growth factor production by activated pancreatic stellate cells in mouse alcoholic chronic pancreatitis. 15th Annual Department of Surgery Research Conference, The Ohio State University, Columbus, OH, May 28, 2010.

**Groner J.** The Pediatric Acute Abdomen, presented at MedNet 21, Center for Continuing Medical Education, The Ohio State University College of Medicine, Columbus, OH, October 23, 2009.

**Groner J.** The Good, the Bad, and the Ugly: Recognition of Shock in Pediatric Trauma, presented at Trauma Grand Rounds, Rainbow Babies and Children’s Hospital, Cleveland, OH, November 4, 2009.

**Groner J.** Pediatric Torso Trauma, presented at the 11th annual Ohio Pediatric Trauma Symposium, Akron, OH, April 16, 2010.

**Groner J.** Recognition and Management of Shock in Pediatric Trauma, presented at the 6th Annual Advocate Injury Institute Symposium, Advocate Health Care System, Chicago, IL, November 19, 2009.

**Groner J.** Pediatric/Adolescent Solid Organ Injury: Observe, Embolize, or Operate, presented at the 6th Annual Advocate Injury Institute Symposium, Advocate Health Care System, Chicago, IL, November 19, 2009.

**Groner J.** Multidisciplinary Trauma Care: Who’s in Charge?, presented at the 17th Annual Trauma Symposium, Memorial Healthcare System and University of Miami Miller School of Medicine, Hallandale Beach, FL, February 11, 2009.

**Huang G, Brigstock, D.** Connective tissue growth factor (CCN2) modulates its cognate integrin receptors and promotes cell adhesion by interacting with fibronectin through integrin  $\alpha 5 \beta 1$  in primary culture mouse hepatic stellate cells. Research Week, Nationwide Children's Hospital, Columbus, OH April 5-9 2010.

**Huang G, Brigstock, D.** Connective tissue growth factor (CCN2) modulates its cognate integrin receptors and promotes cell adhesion by interacting with fibronectin through integrin  $\alpha 5 \beta 1$  in primary culture mouse hepatic stellate cells. The Ohio State University Medical Center Research Day, Columbus, OH, April 8, 2010.

**Jiang Y and Brigstock D.** CTGF is Up-regulated in a Mouse Model of Pancreatic Fibrosis. Research Week, Nationwide Children's Hospital, Columbus, OH, April 5-9, 2010.

**King D.** Your Kid Ate What? Aired on TLC Channel, April 20, 2010.

**Li C, Leask A, Brigstock D.** Ethanol-induced expression of connective tissue growth factor (CTGF) and promoter activity in human hepatic stellate cells. Ohio State University Medical Center Research Day, Columbus, OH, April 8, 2010.

**Li C, Leask A, Brigstock D.** Ethanol-induced expression of connective tissue growth factor (CTGF) and promoter activity in human hepatic stellate cells. Research Week, Nationwide Children's Hospital, Columbus, OH, April 5-9, 2010.

**Michalsky M.** Adolescent Bariatric Surgery: Current and Future Considerations, American Academy of Pediatrics, Nevada State Chapter Meeting Keynote Address, Las Vegas, NV, August 8, 2009.

## Distinguished Visiting Professors

**James A. O'Neill, Jr., MD.** H. William Clatworthy Visiting Professor in the Division of Pediatric Surgery, October 7-8, 2009. Emeritus John Clinton Foshee Distinguished Professor of Surgery, Vanderbilt University School of Medicine, Director of Clinical Program Development and Education for the Meharry-Vanderbilt Alliance, Nashville, Tennessee.

**Presentations:** Pediatric Grand Rounds: Pediatric Surgery: Then and Now.

**Keith C. Kocis, MD.** Visiting Professor in Critical Care, January 27-28, 2010. Professor of Anesthesia, Pediatrics and Biomedical Engineering (Adjunct), Division of Pediatric Critical Care Medicine PCCM Fellowship Director, University of North Carolina, Chapel Hill, North Carolina.

**Presentations:** Grand Rounds: Improving Inpatient Pediatric Safety and Outcomes with Real Time Continuous Risk Analysis.



# Plastic Surgery



**Michael J. Miller, M.D.**  
Chief, Division of Plastic Surgery

**T**he past three years have been extremely productive for the Division of Plastic Surgery at The Ohio State University. The continual growth trajectory of our business and the development of state-of-the-art technology designed for the care of our patients has been the driving force for the group's continued expansion of our faculty, providers, and services. In addition, the reputation of the entire Plastic Surgery product line has been rapidly expanding and there have been many significant achievements within the clinical, research, and teaching arenas.

In clinical care our guiding principle is to provide services that are fully integrated into a multidisciplinary environment within an academic medical center, as well as providing readily available reconstructive surgery services to other specialists at the University Hospital, Ross Heart Hospital, James Cancer Hospital, and Nationwide Children's Hospital. Our surgical volumes, billings, and revenues reached record levels again in fiscal year 2010. Some cases performed this year have never before been performed at The Ohio State University. Dr. Brian Janz, working in collaboration with Dr. Michael Ruff, performed the first total thumb reconstruction at The Ohio State University using microsurgical transfer of a great toe. Both Dr. Janz and Dr. Ruff are new faculty members in 2009 each with joint appointments in plastic surgery and orthopedics. In addition to advanced techniques for reconstructive surgery, we continue to offer state-of-the-art aesthetic surgery as an essential part of a comprehensive clinical service in plastic surgery.

We successfully recruited four new members to the full-time faculty this year, increasing the number of faculty in our Division to 13.

- Dr. Brian Porshinsky joined our faculty with a joint appointment in the Division of Critical Care, Trauma and Burn beginning July 1, 2009. He will serve as the Assistant Director of The Ohio State University Burn Center.

- Dr. Ergun Kocak completed his plastic surgery training at The Ohio State University and a fellowship in reconstructive microsurgery at The University of Texas M.D. Anderson Cancer Center. Dr. Kocak joined the faculty in August, 2009 and has already been proving himself in the clinical arena and in the field of research.
- Dr. Brian Janz, was successfully recruited this year and joined us in September 2009 after completing his fellowship training at the Curtis Hand Center in Baltimore, the premier hand center in the country. Dr. Janz has a dual appointment in the Department of Orthopedic Surgery and is a participant in the multidisciplinary Hand Center.
- Dr. Richard Kirschner is the new Chief of Plastic Surgery at Nationwide Children's Hospital. He is an internationally recognized authority in pediatric plastic surgery and now serves as the Director of the Cleft Lip and Palate Craniofacial Center for Children's. He completed his surgery training at Cornell University Medical Center, where he also completed a research fellowship. Dr. Kirschner then completed his plastic surgery residency at the University of Pennsylvania School of Medicine prior to serving as a fellow in Pediatric Plastic and Reconstructive Surgery at Children's Hospital of Philadelphia (CHOP). Dr. Kirschner was successfully recruited this year and joined the faculty in March, 2010.

With the addition of these 4 new faculty members, the OSU Division of Plastic Surgery is now a full-service academic plastic surgery group of thirteen physicians making it one of the largest plastic surgery programs in the nations. Our success in recruiting additional outstanding faculty members moves us further along toward our goal of becoming a Department at The Ohio State University.

In order to support this growth in faculty, we have added several key new leaders in administration to our organization. Angie Collier-Crespin joined us as our new Division Administrator and Craig Coffman serves as our new Fiscal Officer. In addition, we have added several new administrative and clinic staff members-Holly Rucker, RN, Carrie Shaner, LPN, Tonya Hromjak, LPN, Jennifer Sajdak, Scheduling Coordinator, Carol Vannatter, Patient Care Associate, Tracy Grody, Research Administrative Associate, and Richard Scharschmidt, Executive Assistant.

Our mission remains to "restore, repair and make whole those parts which nature had given but fortune has taken away." Our program's primary objective is restoring wholeness to people suffering from physical deformities through integrated programs in patient care, education and research in the field of Plastic Surgery. Our vision is to foster and build partnerships with other academic disciplines and hospitals as well as our patients and the community to develop our program to become nationally and internationally renowned.

Due to our significant academic and clinical growth this year, we have relocated our offices to the Gowdy Fields II Building at 915 Olentangy River Road, Columbus, OH. This expansion has allowed us to provide space for all current and incoming faculty as well as expand our research program with a Surgical Stimulation Laboratory. In addition with the opening of the new Outpatient Surgery Center on the first floor of the Gowdy facility, we will be able to serve our patients in a more convenient and state-of-the-art facility. Finally, we have played an integral role in establishing the



new OSU Hand Center, a multidisciplinary effort provided primarily by plastic surgery and orthopedic surgery, located on the third floor of the facility.

### **Clinical services**

Our clinical services continue to expand both in volume and scope.

Dr. Gregory Pearson continues to have a very active practice in general plastic surgery, particularly in facial trauma and pediatric plastic surgery. He assumed all responsibility for performing surgery on patients through the Craniofacial Clinic at Nationwide Children's Hospital upon Dr. Ruberg's retirement and has done well in this position. In addition, his assistance with the residency program is of tremendous help to the Director. In April, 2008, Columbus hosted an AO Course in which Dr. Pearson gained many accolades for his presentation and participation. He is also organizing the Tri-State Craniofacial Meeting to be held in Columbus in October, 2010.

This year was Dr. William Wallace's third year on the faculty at Ohio State. Dr. Wallace successfully passed his board certification examinations this year and he has continued his work on establishing a post-bariatric body contouring program in conjunction with general surgery. He has also become our second aesthetic surgeon working out of our Easton location in conjunction with Dr. Anne Taylor. Dr. Wallace will continue to grow his clinical practice as well as undertake more academic responsibilities over the next year.

Dr. Pankaj Tiwari completed his third year here at Ohio State and he has continued to perform beyond our expectations. His clinical practice volume has grown such that he is at the top of our Division. He has also grown in his management and leadership skills as he has been appointed as our faculty Clinical Affairs Director. Dr. Tiwari also acts as the lead advisor for our Communication and Marketing projects which include our divisional website.

Our Easton office location has become very successful under the leadership of Dr. Anne Taylor, who has now been a part of the Division's faculty for three years. Dr. Taylor serves as the Aesthetic Director of our program as well as the Director of the Resident Cosmetic Clinic. Dr. Taylor also represents our division and the University by serving on many different committees and leadership positions in local and national Plastic Surgery professional organizations.

Dr. James Boehmler has completed his second year within the Division of Plastic Surgery. Dr. Boehmler is one of five of our reconstructive microsurgeons and his clinical volumes have grown tremendously over this past year. Dr. Boehmler has contributed greatly to the division by establishing our microsurgery laboratory and by serving as the Division's Finance Director. In addition, he serves on several critical committees including OpTime and Epic which are crucial roles as these two systems were implemented in our division in August 2009. Dr. Boehmler successfully passed his board certification examinations this year.

The division was delighted this year to join forces with the Department of Orthopedic Surgery to create the OSU Hand Center. This center is being directed by Dr. Michael Ruff who joined our program in June 2009. In addition, Dr. Brian Janz, joined our program in September 2009 as a hand

and microsurgeon. Dr. Janz has been instrumental in the development of a divisional database that has been designed to assist the Division in tracking a variety of data points that will help monitor the Division's overall productivity.

The Division has continued our strong alliance with Nationwide Children's Hospital by assisting with the recruitment of a new Chief of Plastic Surgery, Dr. Richard Kirschner, an internationally recognized Pediatric Plastic Surgeon. Over this past year, nearly all of our full-time faculty members have provided general plastic surgery and clinical services to Children's. OSU Plastic Surgery continues to work with Children's Hospital to conduct two major multidisciplinary clinical programs. The Craniofacial Clinic has been staffed primarily this year by Dr. Gregory Pearson who has been assisted by Dr. Robert Ruberg. This program has been very successful and continues to grow in patient volume. In addition, Dr. Gayle Gordillo has continued to direct the multidisciplinary Vascular Malformations Clinic that serves as a center for patient care as well as clinical and basic translational research.

## Research

Mirroring our developments in clinical care, our efforts are expanding in clinical, basic, and translational research.

Dr. Gordillo serves as our dedicated clinical researcher and has been quite productive and successful this year. She has continued developing her successful research program in wound healing and vascular malformations. This year Dr. Gordillo was awarded a 5-year, \$1.8 million RO1 grant from the National Institutes of Health to further her work in the mechanisms of hemangioma formation and control. She has furthered her national chronic wound tissue bank project and has made important contributions in wound healing and vascular malformations research. Dr. Gordillo serves the Division as the Director of Research, coordinating all basic, translational, and clinical research for plastic surgery.

Alok Sutradhar, PhD., our post-doctoral researcher in advanced technology applications in surgery, has been working on several different project areas including: 1) Measuring skin elasticity and skin thickness of the female breast in order to create a physics-based simulation of the breast for surgical planning, teaching, and outcomes prediction, 2) Developing patient-specific optimal layout of reconstructed craniofacial region subject to constraints using topological optimization methods, 3) Developing a mathematical model to predict successful tissue transfer method based on blood vessel diameter, tissue volume and oxygen delivery, 4) Computer simulations to predict breast augmentation surgeries, i.e., mastopexy and implant reconstruction and 5) Developing a framework designed for an objective assessment score for selection of appropriate type of breast reconstructive surgery. These ongoing projects have resulted in three article submissions and two presentations to be given at the 10th US Congress of Computational Mechanics in July, 2009. Two projects completed in collaboration which resulted in a publication in the Proceedings of the National Academy of Sciences. He has had productive collaborations with Avner Friedman of the Mathematical Biosciences Institute as well as with faculty in the Department of Engineering at the University of Illinois. He made critical contributions leading to a grant award from the National Science Foundation, and has served multiple times this year on grant review study sections at NSF. Our goal

is to continue to seek promotion for Dr. Sutradhar a full faculty position on the tenure track in the coming year. Also, we still have plans to recruit a senior full-time research scientist to serve as our Research Director.

Dr. Ergun Kocak has completed his first year as one of our microsurgery faculty members with in the Division of Plastic Surgery. Dr. Kocak has proven to be a tremendous asset to our Division as he is a capable clinician and a promising researcher. He received two intramural grants this year to initiate his research program involving transforming surgical flaps into therapeutic “devices” using viral gene transfection to enable delivery of therapeutic proteins to wounds following tumor ablation.

### **Education**

We made significant advances in our education program.

Under the direction of Dr. Michael Miller as Program Director and Dr. Gregory Pearson as Associate Program Director the Division initiated our new 6-year integrated residency program.

We have continued to enhance our communication with the community faculty by social events, a monthly community faculty meeting and a city-wide M&M conference as well as establishing a local professional society named the Columbus Society of Plastic Surgeons. Our visiting professors this past year have all spoken at the Columbus Society of Plastic Surgeons and this has drawn exposure to Ohio State and what our faculty has to offer the community.

Our priorities for the upcoming year include:

- Obtaining Departmental status at The Ohio State University
- Continue to work toward financial stability
- Actively recruit a few key faculty in various areas of the division, especially in the area of research
- Foster academic development of current faculty
- Establish more efficient clinical care processes
- Establish a high risk treatment center within our clinic at Gowdy Fields
- Utilize a multi-media approach to further publicize our unique clinical services
- Expand our basic and translational research programs in wound healing, biocomputation, regenerative medicine, and clinical science.

## Faculty

### **Michael J. Miller, M.D.**

Professor of Surgery; Chief, Division of Plastic Surgery

**B.S.:** University of Massachusetts, Boston, Mass., 1978

**M.D.:** University of Massachusetts, Boston, Mass., 1982

**Specialty Training:** General surgery, Berkshire Medical Center, Pittsfield, Mass.; plastic surgery, The Ohio State University, Columbus, Oh.; reconstructive microsurgery, Tulane University, New Orleans, La.

**Appointment:** 2007

**Specialty Interests:** Reconstructive surgery for cancer patients

**Research Interests:** Tissue repair and regeneration and applications of advanced technology in clinical surgery



*Miller*

### **James H. Boehmler, IV, M.D.**

Assistant Professor of Surgery

**B.A.:** University of Chicago, Chicago, Ill., 1997

**M.D.:** University of Rochester, Rochester, N.Y., 2001

**Specialty Training:** Plastic surgery, Georgetown University, Washington, D.C., 2007; fellowship in reconstructive microsurgery, University of Texas M.D. Anderson Cancer Center, Houston, Tx., 2008

**Appointment:** 2008

**Specialty Interests:** Oncologic reconstructive surgery



*Boehmler*

### **Gayle M. Gordillo, M.D.**

Associate Professor of Surgery

**A.B.:** Stanford University, Stanford, Calif., 1984

**M.D.:** The Ohio State University, Columbus, Oh., 1990

**Specialty Training:** Plastic surgery, The Ohio State University, Columbus, Oh., 1999

**Appointment:** 1999

**Specialty Interests:** Burns, complex wounds

**Research Interests:** Angiogenesis



*Gordillo*

### **Brian A. Janz, M.D.**

Assistant Professor of Clinical Surgery

**B.A.:** University of Dayton, Dayton, Oh., 1997

**M.D.:** Medical College of Ohio, Toledo, Oh., 2001

**Specialty Training:** General surgery, Harvard Medical School at Beth Israel Deaconess Medical Center, Boston, Mass.; Plastic/reconstructive surgery, Baylor College of Medicine, Houston, Tx., 2008; Hand/microsurgery, Curtis National Hand Center, Baltimore Md.

**Appointment:** 2009

**Specialty Interests:** Oncologic reconstructive surgery



*Janz*

**Richard Kirschner, M.D.**

Professor of Clinical Surgery

**B.A.:** University of Miami, Miami, Fla., 1985

**M.D.:** University of Miami School of Medicine, Miami, Fla., 1989

**Specialty Training:** Plastic surgery, University of Pennsylvania, Philadelphia, Pa., 1997; Reconstructive microsurgery, Children's Hospital of Philadelphia, Philadelphia, Pa., 1998

**Appointment:** 2010

**Specialty Interests:** Craniofacial disorders and cleft lip



*Kirschner*

**Ergun Kocak, M.D.**

Assistant Professor of Surgery

**B.A.:** University of Michigan, Ann Arbor, Mi., 1996

**M.D.:** The Ohio State University, Columbus, Oh., 1998

**Specialty Training:** Plastic surgery, The Ohio State University, Columbus, Oh., 2008; Reconstructive microsurgery, MD Anderson Cancer Center, Orlando, Fla., 2009

**Appointment:** 2009

**Specialty Interests:** Oncologic reconstructive surgery



*Kocak*

**Gregory D. Pearson, M.D.**

Assistant Professor of Clinical Surgery

**B.S.:** Ohio University, Athen, Ohio, 1994

**M.D.:** The Ohio State University, Columbus, Ohio, 1998

**Specialty Training:** Plastic surgery, The Ohio State University, Columbus, Ohio, 2004; Fellowship in craniofacial surgery, Riley Hospital for Children, Indianapolis, Ind., 2005

**Appointment:** 2005

**Specialty Interests:** Craniofacial disorders



*Pearson*

**Brian S. Porshinsky, M.D.**

Assistant Professor of Surgery

**B.A.:** The Ohio State University, Columbus, Ohio, 1991

**M.D.:** Medical College of Toledo, Toledo, Ohio, 1999

**Specialty Training:** Reconstructive surgery, University of Illinois, Chicago, Ill., 2007; Burn surgery, New York-Presbyterian Hospital/Weill Cornell Medical Center, New York, N.Y., 2008; Surgical critical care, The Ohio State University Medical Center, Columbus, Oh., 2009

**Appointment:** 2009

**Specialty Interests:** Acute burn care, fluid resuscitation after burns



*Porshinsky*

**Robert L. Ruberg, M.D.**

Professor of Surgery; Senior Vice Chairman for Administrative Affairs,  
Department of Surgery

**B.A.:** Haverford College, Haverford, Pa., 1963

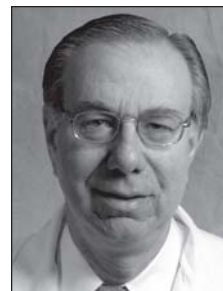
**M.D.:** Harvard Medical School, Cambridge, Mass., 1967

**Specialty Training:** Hospital of the University of Pennsylvania,  
Philadelphia, Pa.

**Appointment:** 1975

**Specialty Interests:** Breast surgery, children's plastic surgery

**Research Interests:** Plastic surgery education, curriculum  
development



*Ruberg*

**Michael Ruff, M.D.**

Clinical Assistant Professor of Surgery

**B.A.:** The Ohio State University, Columbus, Oh., 1974

**M.D.:** The Ohio State University, Columbus, Oh., 1979

**Specialty Training:** Plastic surgery, The Ohio State University, Columbus,  
Ohio, 1984; Hand/microsurgery, University of Louisville, Louisville, Ky.,  
1985

**Appointment:** 2009

**Specialty Interests:** Hand surgery



*Ruff*

**Anne Taylor, M.D.**

Clinical Assistant Professor of Surgery

**B.S.:** Denison University, Granville, Ohio, 1986

**M.D.:** The Ohio State University, Columbus, Ohio, 1990

**Specialty Training:** Plastic surgery, The Ohio State University Medical  
Center, Columbus, Ohio, 1996

**Appointment:** 2007

**Specialty Interests:** Aesthetic surgery



*Taylor*

**Pankaj Tiwari, M.D.**

Assistant Professor of Surgery

**B.A.:** Harvard University, Boston, Mass., 1995

**M.D.:** New York University, New York, N.Y., 2000

**Specialty Training:** Plastic surgery, Baylor College of Medicine, Houston,  
Texas, 2006; fellowship in reconstructive microsurgery, M. D. Anderson  
Cancer Center, Houston, Texas, 2007

**Appointment:** 2007

**Specialty Interests:** Aesthetic surgery and reconstructive microsurgery



*Tiwari*

**William A. Wallace, Jr., M.D.**

Assistant Professor of Clinical Surgery

**B.S.:** Oklahoma State University, Oklahoma City, Okla., 1995

**M.D.:** University of Oklahoma, Norman, Okla., 1999

**Specialty Training:** Plastic surgery, The Ohio State University Medical Center, Columbus, Ohio, 2007

**Appointment:** 2007

**Specialty Interests:** Body contouring



Wallace

## Emeritus Faculty

**Ronald B. Berggren, M.D.**

Professor Emeritus of Surgery

**B.A.:** Johns Hopkins University, Baltimore, Md., 1953

**M.D.:** University of Pennsylvania, Philadelphia, Pa., 1957

## Clinical Faculty

**Haroon A. Aziz, M.D.**

Clinical Assistant Professor of Surgery

**F.Sc.:** Forman Christian College, Lahore, Pakistan, 1965

**M.B.B.S.:** King Edward Medical College, Lahore, Pakistan, 1970

**Arthur G. Bing, M.D.**

Clinical Assistant Professor of Surgery

**M.D.:** Pajaran University, Bandung, Indonesia, 1965

**James W. Farraro, M.D.**

Clinical Associate Professor of Surgery

**B.S.:** Western Reserve, Hudson, Oh., 1961

**D.D.S.:** Western Reserve, Hudson, Oh., 1963

**M.D.:** Ohio State University, Columbus, Oh., 1967

**Greg Holland, M.D.**

Clinical Instructor of Surgery

**B.S.:** Ohio University, Athens, Oh., 1983

**M.D.:** The Ohio State University, Columbus, Oh., 1987



**Robert S. Houser, D.O.**

Clinical Instructor of Surgery

**B.S.:** The Ohio State University, Columbus, Oh., 1993

**D.O.:** Ohio University, Athens, Oh., 1997

**Jason B. Lichten, M.D.**

Clinical Assistant Professor of Surgery

**B.A.:** Brandeis University, Waltham, Mass., 1993

**B.S.:** University of Pennsylvania, Philadelphia, Pa., 1994

**M.D.:** Jefferson Medical College, Philadelphia, Pa., 1998

**James D. McMahan, M.D.**

Clinical Instructor of Surgery

**B.S.:** University of Oregon, Eugene, Ore., 1979

**M.D.:** Oregon Health and Science University, Portland, Ore., 1983

**Gregory E. Morrison, M.D.**

Clinical Assistant Professor of Surgery

**B.A.:** Princeton University, Princeton, N.J., 1976

**M.D.:** Duke University, Durham, N.C., 1979

**David S. Postlewaite, M.D.**

Clinical Assistant Professor of Surgery

**B.S.:** Williams College, Williamstown, Mass., 1963

**M.D.:** The Ohio State University, Columbus, Oh., 1967

**Bivik R. Shah, M.D.**

Clinical Assistant Professor of Surgery

**B.S.:** University of Michigan, East Lansing, Mich., 1989

**M.D.:** The Ohio State University, Columbus, Oh., 1994

**Timothy A. Treece, M.D.**

Clinical Instructor of Surgery

**B.S.:** The Ohio State University, Columbus, Oh., 1979

**M.D.:** The Ohio State University, Columbus, Oh., 1982

**Susan D. Vasko, M.D.**

Clinical Instructor of Surgery

**B.S.:** The Ohio State University, Columbus, Oh., 1979

**M.S.:** The Ohio State University, Columbus, Oh., 1980

**M.D.:** The Ohio State University, Columbus, Oh., 1986



**Rafael E. Villalobos, D.O.**

Clinical Assistant Professor of Surgery

**B.S.:** University of Maryland, Baltimore, Md., 1985

**M.Sc.:** University of Maryland, Baltimore, Md., 1987

**D.O.:** West Virginia School of Osteopathic Medicine, Lewisburg, W.Va., 1991

**John K. Wakelin, M.D.**

Clinical Instructor of Surgery

**B.A.:** Xavier University, Cincinnati, Oh., 1996

**M.D.:** The Ohio State University, Columbus, Oh., 2000

## Resident Staff

**Kevin Delaney, M.D.**

PGY-7

**B.A.:** Miami University, Oxford, Oh., 1996

**M.D.:** Northeastern Ohio Universities College of Medicine, Akron, Oh., 2002

**Stacey Francis, M.D.**

PGY-5

**B.S.:** University of California at Los Angeles, Los Angeles, Calif., 2000

**M.D.:** The Ohio State University, Columbus, Oh., 2005

**K. Roxanne Grawe, M.D.**

PGY-5

**B.A.:** Southern Methodist University, Dallas, Tx., 2000

**M.D.:** University of Texas Medical School at Galveston, Galveston, Tx., 2005

**Myla Bennett, M.D.**

PGY-4

**B.S.:** University of Michigan, Ann Arbor, Mi., 2001

**M.D.:** The Ohio State University, Columbus, Oh., 2006

**Melissa Kinder, M.D.**

PGY-4

**B.S.:** Butler University, Indianapolis, In., 2002

**M.D.:** Southern Illinois University, Springfield, Il., 2006

**Sumita Saha, M.D.**

PGY-4

**B.S.:** Washington College, Chestertown, Md., 2000

**M.D.:** Georgetown University, Washington, D.C., 2006

Microsurgery Fellow

**Nabil Habash, M.D.**

PGY-5

**B.S.:** Florida State University, Tallahassee, Fla., 1998

**M.D.:** University of North Carolina, Chapel Hill, N.C., 2003

Plastic surgery residency: The Ohio State University, Columbus, Oh., 2009

## Mission and Vision

The mission of the Division of Plastic Surgery at The Ohio State University is to restore wholeness to people suffering from physical deformities through integrated programs in patient care, education, and research in the field of plastic surgery. Our vision is to become the world's leading center for the practice, training, and advancement of plastic surgery.

## Basic Science Research Programs

- Gordillo, Gayle M. (Principal Investigator) Macrophage-derived oxidants promote hemangioma growth. Mentored Clinical Scientist Award (K08). NIH/NIGMS, \$633,042.
- Kocak, Ergun (Principle Investigator). Gene Directed Enzyme Prodrug Therapy in Gene Modified Muscle Flaps using a Syngeneic Tumor in an Immunocompetent Rat Model. Seed Grant from The American Cancer Society, \$30,000.
- Kocak, Ergun (Principle Investigator). Gene Directed Enzyme Prodrug Therapy in Gene Modified Muscle Flaps using a Human Xenograft Tumor in an Immunodeficient Mouse Model. CCTS Davis Bremer Pilot Award, \$40,000.
- Kocak, Ergun (Principle Investigator). Acquired Ischemia Resistance in Plastic Surgical Flaps using Delta Opioid Receptor Agonists in the Rat Model. Roessler Scholarship for Medical Student Research.

## Clinical Research Programs

- Gordillo, Gayle M. (Principal Investigator) A multicenter randomized, controlled trial examining cellular and tissue oxygenation levels related to various wound healing therapies- KCI USA, Inc. \$124,878.
- Gordillo, Gayle M. (Principal Investigator) A Prospective, Multi-Center, Double Blind, Randomized Placebo Controlled Trial to Evaluate the Safety and Efficacy of ICXP007 in a Phase III trial with Four-Layer Therapeutic Compression, for the Treatment of Non-Infected Skin Leg Ulcers due to Venous Insufficiency. FDA Phase III, \$195,304.
- Gordillo, Gayle M. (Co-investigator) Efficacy of Natural Vitamin E Tocotrienol on the Treatment of Surgical Scars – Randomized Double-Blinded Placebo Controlled Trial Designed to Assess the Qualitative Effects of Tocotrienol on Scar Healing Outcomes in Plastic Surgery Patients, \$600,000.
- Gordillo, Gayle M. (Principal Investigator) Use of dermaPACE (Pulsed Acoustic Cellular Expression) device in conjunction with standard of care in the treatment of diabetic foot ulcers – SanuWave; FDA phase II; \$73,506.
- Kocak, Ergun (Co-investigator). Distal Interphalangeal Joint Arthrodesis with the Herbert Headless Compression Screw: Outcomes and Complications in 67 Consecutively Treated Joints.
- Kocak, Ergun (Co-investigator). A Reliable Method for the Preoperative Estimation of Tissue to be Removed during Reduction Mammoplasty.
- Kocak, Ergun (Principle Investigator). Intraoperative Image-guided Navigation for Determining the Accuracy of Preoperative CT Angiography Used to Locate Perforators for DIEP Flap Breast Reconstruction.
- Kocak, Ergun (Principle Investigator). Breast Aesthetics: Objective Measures Based on 3-D Imaging.
- Kocak, Ergun (Principle Investigator). A Quantitative Doppler Blood Flow Study Comparing End-to-end and End-to-side Venous Anastomoses in Microvascular Free Tissue Transfer.

## Translational Research Programs

- Gordillo, Gayle M. (Principal Investigator) Gene Expression Profiles in Healing and Non-Healing Wounds – a large multicenter translational research protocol being implemented at OSU and other wound care centers in the National Healing Corp network that collects wound tissue specimens, medical history and clinical outcomes data to determine patterns of gene expression in healing versus non-healing wounds. Tissue specimens will be evaluated by histology for quality control and then proceed to gene chip analysis on single cell populations using laser capture technology. Data collection and management strategies were incorporated into the protocol, which is also approved by the GCRC at OSU. They support the data collection process.
- Gordillo, Gayle M. Mechanisms Regulating Wound Vascularization – a Pilot study for the Program Project Initiative Grant to get preliminary data for a planned P50 Center grant submission to NIH to establish a Wound Healing Center of Excellence at OSU. A \$400,000 seed grant was provided by the Davis Heart and Lung Research Institute to support the development of this proposal. Dr. Gordillo is the clinical core director and wrote the human subjects protocol and supervised development of data management tools to support translational needs of 4 basic science investigators.
- Gordillo, Gayle M. (Co-investigator) Mechanisms Underlying Impaired Diabetic Wound Healing (R01). NIH/NIDDK, \$1,200,00. Is a translational protocol looking at the effects of diabetes on macrophage function in wounds? Macrophages are collected from the wound non-invasively using VAC Sponges in a protocol developed jointly by Dr. Gayle Gordillo and Dr. Sashwati Roy.
- Gordillo, Gayle M. The incidence of malnutrition and other risk factors for impaired healing among inpatients with chronic wounds (2007-2009) – ongoing retrospective chart review of patients seen by the inpatient wound consult service.
- Gordillo, Gayle M. Isolation of cells and proteins from wound fluid in patients treated with VAC dressings (2006-present) – protocol used to obtain preliminary data for the NIH/NIDDK R01 award and currently being used to acquire preliminary data for planned P50 center grant.
- Gordillo, Gayle M. Mechanisms underlying impaired diabetic wound healing (2007- present) – protocol written for the NIH/NIDDK R01 award.
- Miller, Michael and Sutradhar, Alok. Co-Principal Investigator, EAGER: Topological Optimization Methods for Designing Patient-Specific Large Craniofacial Segmental Bone Replacements, NSF CMMI Award # 1032884. \$158,407.

## Accomplishments in Research

- Ergun Kocak, M.D., received a seed grant from The American Cancer Society for \$30,000.
- Ergun Kocak, M.D., was the recipient of a CCTS Davis Bremer Pilot Award for \$40,000.
- Ergun Kocak, M.D., received a Roessler Scholarship for Medical Student Research.
- Gayle Gordillo, M.D.- received the Best Translational Research Presentation 2010 from the Oxygen Club of California.
- Gayle Gordillo, M.D., was awarded a 5-year, \$1.8 million RO1 grant from the National Institutes of Health to further her work in the mechanisms of hemangioma formation and control.
- Michael Miller, M.D., (Principal Investigator) and Alok Sutradhar, Ph.D., Post Doc (Co-Principal Investigator) received a grant award EAGER: Topological Optimization Methods for Designing Patient-Specific Large Craniofacial Segmental Bone Replacements from NSF CMMI for \$158,407.

## Clinical Programs

- **Hemangioma and Vascular Malformation Clinic** – established and directed by Dr. Gayle Gordillo. Provides comprehensive care to patients with hemangiomas and vascular malformations. This clinic is staffed by 4 physician providers which includes a dermatologist and an otolaryngologist and 2 plastic surgeons. The volume of patients seen has also doubled in size and exceeds 400+ patient visits per year.
- **Inpatient Wound Consult Service** – established and directed by Dr. Gayle Gordillo and staffed by Dr. Pankaj Tiwari. This service provides expertise in the evaluation and management of inpatients with pressure ulcers, venous stasis ulcers or diabetic foot ulcers. This service also sees about 200 patients per year.
- **The Craniofacial Clinic at Nationwide Children's Hospital** is serviced by Dr. Gregory Pearson and Dr. Robert Ruberg.
- **Comprehensive Wound Center (CWC)** – Recognized by OSU Board of Trustees in 10/04, this center was developed by Dr. Gordillo and Dr. Chandan Sen to: 1) accelerate the translation of basic science findings to clinical application, 2) encourage novel partnerships and multidisciplinary approaches to investigate complex problems related to wound repair and regeneration, and 3) use data to develop clinical best practices and become leaders in the field of tissue repair and wound management. The objectives and activities of the CWC adhere to NIH Roadmap guidelines. The CWC was used as a centerpiece in the recently funded OSU proposal for a Clinical and Translational Science award from NIH (\$35,000,000).

## Accomplishments in Clinical Care

- OSU Division of Plastic Surgery is now a full-service, comprehensive plastic surgery program of 13 physicians making it one of the largest plastics surgery programs in the nation.
- The division joined forces with The Department of Orthopedics to create the OSU Hand Center which opened one at 915 Olentangy River Road, Gowdy Fields II Building in March 2010.
- Dr. Michael Miller received two very prestigious awards for “Best Case of the Year” and “Best Save of the Year” from the American Society of Reconstructive Microsurgery Meeting. No institution has ever won both of these awards in the same year. This was Ohio State’s first year of entering cases as we are very proud of everyone that was involved.
- On October, 2009 The Ohio State University Division of Plastic Surgery put forth a team effort to reconstruct the oro-mandibular region of an 8 year old boy from west Africa. The patient was afflicted with NOMA, a polymicrobial necrotizing oral stomatitis. Patients affected by this disease are typically afflicted in their youth and hail from endemic, poverty-stricken regions of the world. The patient was sponsored by a local Columbus family and his care was funded by Nationwide Children’s Hospital. The plastic surgery team included: Dr. Gregory Pearson and Dr. Pankaj Tiwari (faculty), Dr. Nabil Habash (microsurgical fellow), Dr. Stacey Francis (senior resident) and Dr. Samita Saha (junior resident). In addition to the crippling deformity that this illness had ravaged on his oro-facial region, the patient’s functional status was severely impaired due to TMJ ankylosis and oral incompetence. The surgery consisted of scar release, TMJ arthroplasty and microvascular transfer of a dual-paddled anterolateral thigh flap. The patient progressed well, is now eating and is scheduled for further reconstructive procedures.
- Dr. Michael Miller was honored as one of the Best Doctors in American 2009-2010.

## Clinical Statistics

OR Procedures	840
Outpatient Visits	1,269
Admissions	386
Patient Days	2,111
Average Length of Stay (Days)	5.47

## Educational Programs

- The Plastic Surgery Residency Training Program is now an integrated 6-year program. In 2009-2010 the Division initiated the new program format. This is an exciting change for our program and should add a great deal of knowledge and experience for our residents. It is also consistent with changes in training which will be mandated by the ACGME starting in 2010.
- The OSU Division of Plastic Surgery held the First Annual Ruberg Symposium in September 2009. This year's symposium honored Dr. Robert Ruberg and focused on the emerging healthcare environment, relevant economic and business concepts pertaining to plastic surgery, and improving outcomes in plastic surgery of the breast and of the aging face.

## Accomplishments in Education

- Drs. Robert Ruberg and Anne Taylor served as examiners for the American Board of Plastic Surgery in Phoenix, Arizona on November, 2009.
- Dr. Greg Pearson wrote questions for the AACPS MOC Craniofacial Surgery Certification Examination, July 2009.
- Dr. Gayle Gordillo served as Chairman of the PSEF Basic Science Grant Review Session, Beverly Hills, CA, September, 2009.
- Dr. Gayle Gordillo spoke to the OSU College of Medicine Admissions Office on the topic of "My Experience as an OSU Medical Student." Sep. 2009.
- Dr. Gayle Gordillo spoke on "Pressure Ulcers Evaluation & Management" OSU MedNet Live CME Webcast, Apr. 2010.

## Community Outreach Programs

- Dr. Pankaj Tiwari participated in a surgery mission trip to Jalandhar, Punjab in India in December 2009. The trip was organized in conjunction with surgeons from the American Society of Indian Plastic Surgeons. This group (ASIPS) represents plastic surgeons of Indian origin who are board certified and come from both academic and private plastic surgery backgrounds. The mission trip was also planned in conjunction with local plastic surgeons from Changara Singh Hospital in Punjab. During the trip over 40 operations were performed for burn reconstruction, cleft repair, hand surgery and other complex reconstructions. The mission trip was presented at the

International Plastic and Reconstructive Surgery Meeting (IPRAS) in New Delhi December, 2009. This was the first such mission trip performed in an effort to develop a relationship with not only the local plastic surgeons but with multinational plastic surgeons interested in international mission work.

- Dr. James Boehmle led a Breast Reconstruction Seminar at The Ohio State University that was featured in *Current Health 1* magazine in March 2010.

## Accomplishments in Community Outreach

- Gayle Gordillo, M.D. - Ohio Diversity Latino Talent & Leadership conference. Personal Leadership Development Roundtable: A Panel Discussion on Diversity Mentoring and Leadership Development (panelist), Columbus, OH, Sep. 2009.
- Gayle Gordillo, M.D. - Women of Color Foundation – Annual Conference Panelist “The Impact of Mentoring” May 2010.
- Gayle Gordillo, M.D. - OSU College of Medicine MD Camp – “The Realities of Surviving as a Minority in your Profession.” June 2010.
- Brian Porshinsky, M.D. – Presented “Crash and Burn” Seminar, Delaware EMS, July 2009.
- Pankaj Tiwari, M.D. – Named *Who’s Who in Medicine*, March 2010.
- Michael J. Miller, M.D. – Served as an Adjunct Merit Reviewer, Merit Review Subcommittee for Surgery, Department of Veterans Affairs, 2010.
- Michael J. Miller, M.D. and Gregory Pearson, M.D. – Nominees for Health Care Heroes Award, Business First, 2009.
- Michael J. Miller, M.D. – Immediate Breast Reconstruction, Media News Release, May 2009.
- Michael J. Miller, M.D. – Breast Reconstruction Following Mastectomy, ONN Interview, June 10, 2009.



## Publications

**Boehmler JH, Francis SH, Grawe KG, Mayerson JL.** Reconstruction of an External Hemipelvectomy Defect with a Two-Stage Fillet of Leg-Free Flap. *Journal of Reconstructive Microsurgery* 2010;26(4):271-276.

**Boehmler JH, Butler CE, Ensor J, Kronowitz SJ.** Outcomes of Various Techniques of Abdominal Closure after TRAM Flap Breast Reconstruction. *Plastic Reconstructive Surgery*. 2009; 123(3):773-781.

Chan, Y-S, Paulino, GH, Feng, F, **Sutradhar, A.** “Dependence of Crack Tip Singularity on Loading Functions”, *Mechanics Research Communications*, 37:191-197:2010.

Chang DW, Satterfield WC, Son D, Neto N, Madewell JE, Raymond AK, Patrick CW Jr, **Miller MJ, Costelloe CM, Weber KL.** Use of vascularized periosteum or bone to improve healing of segmental allografts after tumor resection: an ovine rib model. *Plastic Reconstructive Surgery* 123(1): 71-8, 2009.

Cheng MH, Brey EM, Allori AC, Gassman A, Chang DW, Patrick CW Jr, **Miller MJ.** Periosteum-guided prefabrication of vascularized bone of clinical shape and volume. *Plastic Reconstructive Surgery*. 124(3):787, 2009.

**Francis SH, Ruberg RL, Stevenson KB, Beck CE, Ruppert AS, Harper JT, Boehmler JH, Miller MJ.** Independent Risk Factors for Infection in Tissue Expander Breast Reconstruction. *Plastic Reconstructive Surgery*. 2009; 124(6):1790-6.

**Gordillo GM, Fang H, Park HA, Roy S.** Nox-4 Dependent Nuclear H<sub>2</sub>O<sub>2</sub> Drives DNA Oxidation Resulting in 8-OHdG as Urinary Biomarker and Hemangioendothelioma Formation. *Antioxidants Redox Signaling*. 2009 Oct 9. [Epub ahead of print].

Khanna S, Biswas S, Shang Y, Collard E, Azad A, Kauh C, Bhasker V, **Gordillo GM, Sen CK, Roy S.** Macrophage dysfunction impairs resolution of inflammation in the wounds of diabetic mice. *PLoS One*. 2010 March 4;5(3):e9539.

Matzavinos A, Kao CY, Green EF, Sutradhar A, **Miller MJ, Friedman A.** Modeling oxygen transport in surgical tissue transfer. *Proceedings of the National Academy of Science*. 106(29):12091, 2009.

**Pearson GD., Ruberg RL.** “A History of Plastic Surgery.” In *Plastic Surgery: Indications and Practice.* Edited by Guyuron, B, Eriksson, E, Persing, J. China: Sanders Elsevier. 1-3. 2009.

Rios CN, Skoracki RJ, **Miller MJ, Satterfield WC, Mathur AB.** In vivo bone formation in silk fibroin and chitosan blend scaffolds via ectopically grafted. Periosteum as a cell source: a pilot study. *Tissue Engineering*, Part A 15(9):2717, 2009.

Sen CK, **Gordillo GM**, Roy S, Kirsner R, Lambert L, Hunt TK, Gottrup F, Gurtner GC, Longaker MT. Human skin wounds: a major and snowballing threat to public health and the economy. *Wound Repair Regeneration*. 2009 Nov-Dec;17(6):763-71.

Sen CK, **Gordillo GM**, Khanna S, Roy S. Micromanaging vascular biology: tiny microRNAs play big band. *Journal of Vascular Research*. 2009;46(6):527-40. Epub 2009 Jun 30.

**Sutradhar**, A, Paulino, GH, **Miller, MJ**, Nguyen. T. “Topological optimization for designing large craniofacial segmental bone replacement”, *Proceedings of the National Academy of Sciences* (in press).

Yu P, Chang DW, **Miller MJ**, Reece G, Ross GL. Analysis of 49 cases of flap compromise in 1310 free flaps for head and neck reconstruction. *Head & Neck*. 31(1):45-51, 2009.

## Books

**Gayle M. Gordillo**, Chandan K Sen. Editors Gary Stoner, Navindra Seeram. “Endothelial Cell Tumor Prevention with Berry Extracts: Clinical Problems, Molecular Mechanisms and Therapeutic Opportunities.” Published by Springer in *Berries and Cancer Prevention*.

**Kirschner, R.E.** and Nah, H.-D. Craniofacial Growth: Genetic Basis and Morphogenetic Process in Craniosynostosis. In *Plastic Surgery*, Guyuron, B., Ed. London: Elsevier.

## International Presentations

**Miller MJ**. Visiting Professor: Egyptian Society of Head and Neck Oncology, Cairo, Egypt, November 18-19, 2009.

**Tiwari P**. “Role of Intra-operative Fluorescence Angiography in the Monitoring of Anastomotic Complications During Free Tissue Transfer.” International Plastic, Reconstructive and Aesthetic Society, New Delhi, India, December 2009.

## National Presentations

**Gordillo GM**. “Pressure Sores: What you and Your Institution Can Do to Comply with the New Regulations – The OSU Experience.” American College of Surgeons, Chicago, Ill., October 2009.

**Gordillo GM.** “Micronutrients and Wound Healing: What’s New to Heal.” American Society of Parenteral and Enteral Nutrition, Las Vegas, NV, February 2010.

**Gordillo GM.** “Pressure Ulcer Prevention at The Ohio State University Medical Center: A Comprehensive Approach.” University Health System Consortium, Chicago, Ill., February 2010.

**Gordillo GM.** “Hemangioma Growth is Nox-4 Dependent.” Oxygen Club of California, Santa Barbara, Ca., March 2010.

**Gordillo GM.** “Pressure Ulcers Evaluation & Management” OSU MedNet Live CME Webcast, April 2010.

**Gordillo GM.** “Topical Oxygen Therapy.” Society for Advanced Wound Care, Orlando, Fla., April 2010.

**Gordillo GM.** “Topical Oxygen Therapy.” University of Illinois at Chicago Center for Wound Healing & Tissue Regeneration, Chicago, Ill., May 2010.

**Pearson GD.** “Pediatric Mandible Fractures” Stryker course, Interdisciplinary Problem Solving in Craniomaxillofacial Surgery”, June 2009.

**Pearson GD.** “Reconstruction of Complex Problems at a Tertiary Pediatric Hospital” Nationwide Children’s Hospital Grand Rounds, Columbus, Oh., December 2009.

**Pearson GD.** “Panfacial Fractures AO North America, Principles of Operative Treatment of Craniomaxillofacial Trauma and Reconstruction” Pittsburgh, Pa., May 2010.

**Miller MJ.** “Program Development in Oncologic Reconstructive Surgery”; “Salvage Reconstruction Following Flap Failure”; “Optimizing Aesthetic Outcomes in Breast Reconstruction”; “Computer Assisted Design in Planning Midface Reconstruction”; “Total Esophageal Reconstruction with Supercharged Pedicled Jejunal Flaps”, Symposium in Reconstructive Surgery, Mayo Clinic, Rochester, Minn., June, 2010.

## Local Presentations

**Gordillo GM.** “Topical Oxygen Improves Wound Healing” – International Society on Oxygen Transport to Tissue, Cleveland, Oh., July 2009.

**Tiwari P.** “Role of Intra-operative Fluorescence Angiography in the Monitoring of Anastomotic Complications During Free Tissue Transfer.” International Plastic, Reconstructive and Aesthetic Society, Cleveland, Oh., December 2009.

**Tiwari P.** “Reconstructive of the Complex Wound” MedCentral Mansfield Grand Rounds, Mansfield, Oh., May 2009.

**Tiwari P.** “Bucyrus Community Hospital Grand Rounds” Topics in Breast Reconstruction, Bucyrus, Oh., November 2009.

## Miscellaneous Presentations

**Gordillo GM.** “Comparative Effectiveness Research in the Comprehensive Wound Center,” Comparative Effectiveness Research: Opportunities at The Ohio State University Symposium, Center for Clinical and Translational Science, Columbus, Oh., February 2010.

**Kocak E.** Discussant. Connective Tissue Growth Factor Production by Activated Pancreatic Stellate Cells in Mouse Alcoholic Chronic Pancreatitis. Department of Surgery 15th Annual Research Day Conference, Columbus, Oh., May 2010.

**Kocak E.** “Plastic Surgical Research.” Presented at Plastic Surgery Interest Group. The Ohio State University, Columbus, Oh., February 2010.

**Kocak E.** “Critical Review of the Literature.” Presented at Resident Conference, Columbus, Oh., October 2009.

**Kocak E.** “Delayed Immediate Breast Reconstruction.” 1st Annual Ruberg Symposium, Columbus, Oh., September 2009.

**Kocak E.** “Hot Topics in Breast Reconstruction.” OSU Medical Oncology Group. Dublin, Oh., September 2009.

**Miller MJ.** Lecturer, “Feasibility of Computer Modeling in Breast Reconstruction and Augmentation Surgery.” US National Congress on Computational Mechanics, Columbus, Oh., July 2009.

**Miller MJ.** Lecturer, “Plastic Surgery in Oncology: To Restore and Make Whole.” Oncology Update, The Ohio State University, Columbus, Oh., October 2009.

**Miller MJ.** Lecturer, “Breast Reconstruction.” Breast Cancer Symposium Review, Hyatt on Capital Square, Columbus, Oh., January 2010.

**Miller MJ.** Lecturer, “Living Fully after Cancer: The Roll of Breast Reconstruction.” Stefanie’s Champions, Breast Cancer Research Symposium, The Ohio State University Comprehensive Cancer Center, Arthur G. James Cancer Hospital and Solove Research Institute, Columbus, Oh., April 2010.

**Miller MJ.** Lecturer, “Breast Survivorship Symposium.” The Ohio State University Comprehensive Cancer Center, Arthur G. James Cancer Hospital & Solove Research Institute, Columbus, Oh., May 2010.

**Sutradhar A, Miller MJ.** “Topological Optimization in Craniofacial Reconstruction.” 10th US National Congress on Computational Mechanics, Columbus, Oh., July 2009.

**Sutradhar A, Miller MJ.** “Feasibility of Computer Modeling of Breast Reconstruction and Augmentation Surgery.” 10th US National Congress on Computational Mechanics, Columbus, Oh., July 2009.

## Distinguished Visiting Professors

**M. Samuel Noordhoff, M.D.**

Naples, Florida

“Taiwan Venture – 50 years”

“Unilateral Cheiloplasty & Bilateral Cheiloplasty”

“Factors in Growth, Secondary Unilateral & Bilateral Cleft Lip Repair”

January 28 & 29, 2010

**Mary H. McGrath, M.D., M.P.H.**

University of California, San Francisco

“The Well Being of Residents “

“Off Shore Surgery”

May 28, 2010



# Surgical Oncology



**William B. Farrar, M.D.**  
Chief, Division of Surgical Oncology

In the Division of Surgical Oncology, all clinical and basic research activities are devoted to the evaluation and management of cancer. The mission of the division is reflected in the mission of The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. Our goals are to provide excellence in clinical cancer care, educate medical students, residents, and fellows, and conduct clinical and basic research. Most of the research performed in the division is translational, in which ideas and hypotheses from the laboratory are incorporated into clinical evaluation through the clinical trial mechanism.

Dr. Doreen Agnese continues to distinguish herself as an excellent clinician, working mainly in breast cancer, melanoma, and cancer genetics. She participates in our High-Risk Breast Cancer Clinic and continues to lead our weekly multi-modality breast meeting. Dr. Agnese has served as a resident mentor for the past four years, and is on the clinical subcommittee of the Center for Women's Health. She appeared on local televised news programs to discuss her recent breast cancer research and its implications for the community. She serves as a reviewer for the European Journal of Surgical Oncology.

Dr. Mark Bloomston continues to lead our GI surgical oncology program. He is director of translational research in liver cancer and also serves as director of the surgical oncology fellowship program. This year, he completed the James IV Surgical Association Traveling Fellowship. He serves on the biliary cancer guidelines committee of the National Cooperative Cancer Network. He served as a mentor to many residents and medical students this year. Last year Dr. Bloomston received a National Institutes of Health K12 award for his work titled "Translational Training Grant in Experimental Therapeutics." He continues to make numerous local and national presentations in GI oncology.

Dr. William Carson, a leader in basic research, continues to serve as associate director of the Comprehensive Cancer Center at the James Cancer Hospital. He directs the institutional review board at the James and continues as co-director of the clinical trials office. Dr. Carson has been instrumental in increasing clinical trial activity at the James this year, and through his efforts has made the cancer hospital a leader in clinical trial participation. He holds numerous grants, and recently received an NIH K24 award and an NIH/NCIP01 award. Dr. Carson recently concluded an NIH/NCIR21 award titled "The Therapy of Melanoma and Basismad Interferon-Alpha."

Dr. William Farrar is the recipient of the Arthur G. and Mildred C. James and Richard J. Solove chair in surgical oncology. Breast and thyroid cancer continue to be the focus of his clinical and research activities. Dr. Farrar is co-director of the JamesCare Breast Center at Stoneridge, a comprehensive center that makes available all the aspects of the breast cancer diagnosis during one clinic visit, providing mammography, ultrasound, stereotactic breast biopsy, MRI, and outpatient techniques. He recently completed six years of service on the Commission on Cancer of the American College of Surgeons, and he continues as principal investigator at The Ohio State University Medical Center for the National Surgical Breast and Bowel Project. Dr. Farrar serves on the breast treatment, breast cancer prevention, and thyroid cancer guidelines committees of the National Comprehensive Cancer Network. At the James Cancer Hospital, he continues to serve as medical director, and he also serves on the leadership council, which is working toward a major expansion of the James. Dr. Farrar has been listed by *Best Doctors in America* for seven years.

Dr. William Kraybill has just completed his first year in the Division of Surgical Oncology. He began work in May, 2009, following a distinguished career at The Roswell Park Cancer Institute where he led the melanoma and sarcoma service for more than 17 years. Dr. Kraybill has vast experience in research as well as the treatment of melanoma and sarcoma. He serves on a number of radiation therapy oncology group committees and was recently inducted into the American Surgical Society. He has already established a practice in melanoma and sarcoma. He has also served as a mentor to our younger faculty.

Dr. Edward Martin is an international leader in gastrointestinal cancer and continues to evaluate the detection of recurrent colon cancer. He participates in an R21 grant titled "The Probe-Assisted PET CT-Guided Surgery for Colon Cancer," and received an R01 grant for "The Integrated System for Tumor Detection and Targeting Drug Therapy of Cancer." A prolific author, Dr. Martin has authored more than 200 publications, eight of which were published this year. His research has also resulted in numerous national presentations, and one of his papers has been accepted for presentation next year at the American College of Surgeons Surgical Forum. He was issued a patent for a fluorescence detection system. Dr. Martin continues to be a leader in teaching surgical principles to residents and fellows at the James.



Dr. John Phay recently joined the Division of Surgical Oncology in July of 2009. John specializes in endocrine surgery and comes to us from Vanderbilt University where he practiced endocrine surgery for about 6 years. He previously trained with the endocrine group at Washington University. John is becoming very active clinically and is working under the mentorship of Dr. Matt Ringel doing research in thyroid cancer. He brings to the division a needed expertise in adrenal tumor, thyroid cancer and parathyroid disease.

Dr. Stephen Povoski, a leader in breast cancer prevention, continues to serve as director of our High-Risk Breast Cancer Clinic. He is a leader in innovative techniques for the treatment of breast cancer, and has been the principal investigator on our partial radiation therapy program. Dr. Povoski has also been working with the Division of Nuclear Medicine to evaluate near infrared/ultrasound dual mobile imaging for breast cancer. He is a co-investigator on a pilot study evaluating the combined and integrated technologic approach of 18F-FDG-directed perioperative PET/CT imaging and intraoperative hand-held gamma probe detection of neuroendocrine and occult disease in patients undergoing surgery for solid malignancy. Dr. Povoski was appointed principal investigator for the Lymphoseek program. He continues to serve on a number of editorial boards, and was recently named editor of the World Journal of Surgical Oncology.

Dr. Lisa Yee, an excellent clinician and researcher, has a number of translational clinical trials for which she continues to recruit patients. She maintains a very busy practice in breast oncology and serves as our division liaison with the medical students. She continues her basic research in fatty acids and breast cancer prevention.

Dr. Wiley W. "Chip" Souba, Jr. continues to serve as dean of the College of Medicine and vice president for health sciences at The Ohio State University Medical Center.

Dr. Carl Schmidt has now completed his second year in the Division of Surgical Oncology after completing a fellowship in surgical oncology at the Memorial Sloan Kettering Cancer Institute in New York City. He has quickly become very busy clinically in the treatment of GI malignancies. He has become an excellent educator not only for our fellowship program but for our residents and students. He presents a conference weekly to our fellows concerning different aspects of clinical trials. He also recently received a grant entitled CCTC Davis Bremer Award.

Dr. Sherif Abdel-Misih completed the two-year fellowship in surgical oncology in June 2009 and accepted a faculty appointment with the Division of Surgical Oncology at Ohio State. Dr. Abdel-Misih also received the Fellow Teaching Award. Bestowed by the general surgery residents, this award recognizes a fellow who has demonstrated excellence in teaching

## Faculty

### **William B. Farrar, M.D.**

Professor of Surgery; Chief, Division of Surgical Oncology; the Arthur G. and Mildred C. James/Richard J. Solove Chair in Surgical Oncology

**B.A.:** Illinois Wesleyan University, Bloomington, Ill., 1971

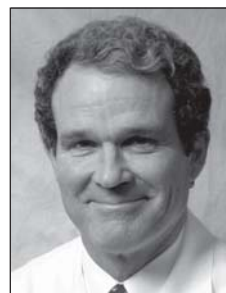
**M.D.:** University of Virginia, Charlottesville, Va., 1975

**Specialty Training:** The Ohio State University, Columbus, Ohio; Memorial Sloan-Kettering Cancer Center, New York, N.Y.

**Appointment:** 1982

**Specialty Interests:** Breast disease, thyroid disease, head and neck cancer

**Research Interests:** Breast cancer (high-risk breast cancer clinic, clinical studies for the adjuvant treatment of breast cancer, role of stereotactic biopsy for diagnosis, use of sestamibi in breast cancer diagnosis); thyroid cancer (role of aspiration biopsy and follicular neoplasms, extent of surgery for thyroid cancer); parathyroid disease (localization studies using sestamibi and Neoprobe)



*Farrar*

### **Doreen M. Agnese, M.D.**

Assistant Professor of Surgery and Internal Medicine - Clinical

**M.D.:** University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School, Piscataway, N.J., 1993

**Specialty Training:** General surgery internship and residency, research fellowship, University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School, Piscataway, N.J.; fellowship in surgical oncology and clinical cancer genetics, The Ohio State University, Columbus, Ohio

**Appointment:** 2004

**Specialty and Research Interests:** Breast cancer, melanoma, cancer genetics, all aspects of surgical oncology



*Agnese*

### **Mark Bloomston, M.D.**

Assistant Professor of Surgery

**B.S.:** Florida State University, Tallahassee, Fla., 1992

**M.D.:** University of South Florida, Tampa, Fla., 1997

**Specialty Training:** Internship, residency, and research fellowship in general surgery, University of South Florida, Tampa, Fla.; fellowship in surgical oncology, The Ohio State University, Columbus, Ohio

**Appointment:** 2006

**Specialty and Research Interests:** Pancreatic and alimentary tract cancers



*Bloomston*

**William E. Carson, III, M.D.**

Professor of Surgery

**B.S.:** University of California, Irvine, Calif., 1982

**M.D.:** University of Southern California, Los Angeles, Calif., 1986

**Specialty Training:** University of California, Irvine, Calif.; Roswell Park Cancer Institute, Buffalo, N.Y.

**Appointment:** 1997

**Specialty Interests:** Breast cancer

**Research Interests:** The role of natural killer cells in septic shock



*Carson*

**William G. Kraybill, M.D.**

Professor of Surgery

**B.A.:** Earlham College, Richmond, Ind., 1965

**M.D.:** University of Cincinnati, Cincinnati, Ohio, 1969

**Specialty Training:** Internship at Santa Clara Valley Medical Center, San Jose, Calif.; Residency and Fellowship at University of Oregon Health Sciences Center, Portland, Ore.; Fellowship in Surgical Oncology at Memorial Sloan-Kettering Cancer Center, New York, N.Y.

**Appointed:** 2009

**Specialty Interests:** Malignant melanoma and other aggressive skin cancers, soft tissue sarcomas

**Research Interests:** Clinical trials in tumors, multidisciplinary management of tumors, whole body hyperthermia



*Kraybill*

**Edward W. Martin, Jr., M.D.**

Professor of Surgery

**B.S.:** Ohio University, Athens, Ohio, 1967

**M.D.:** Meharry Medical College, Nashville, Tenn., 1972

**Specialty Training:** National Institutes of Health training, The Ohio State University, Columbus, Ohio; American Cancer Society Advanced Fellowship, The Ohio State University, Columbus, Ohio

**Appointment:** 1977

**Specialty Interests:** Gastrointestinal malignancies

**Research Interests:** Radioimmunoguided surgery, tumor markers, biologic response modifiers, liver metastatic model, dormant cancer cells, vaccines



*Martin*

**John E. Phay, M.D.**

Associate Professor - Clinical

**B.A.:** Williams College, Williamstown, Mass., 1987

**M.D.:** University of California at San Francisco School of Medicine, San Francisco, Calif., 1993

**Specialty Training:** Resident in General Surgery, Washington University School of Medicine, St. Louis, Mo.

**Appointed:** July 1, 2009

**Specialty Interests:** Thyroid cancer, benign thyroid disease, parathyroid disease, multiple endocrine neoplasia, surgical adrenal disease (laparoscopic adrenalectomy)

**Research Interests:** Thyroid cancer, glucose metabolism in malignancy, parathyroid surgical imaging

**Previous Appointment:** Assistant Professor of Surgery, Division of Surgical Oncology and Endocrinology, Vanderbilt University, Nashville, Tenn.



*Phay*

**Stephen P. Povoski, M.D.**

Associate Professor of Surgery

**B.S.:** State University of New York, Buffalo, N.Y., 1985

**M.D.:** State University of New York Health Science Center, Syracuse, N.Y., 1989

**Specialty Training:** University of Cincinnati Medical Center, Cincinnati, Ohio; Memorial Sloan-Kettering Cancer Center, New York, N.Y.

**Appointment:** 2001

**Specialty Interests:** Breast cancer, breast diseases

**Research Interests:** Sentinel lymph node mapping and biopsy for breast cancer, image-guided/minimally invasive breast biopsy, high-risk breast cancer clinic, ductal lavage



*Povoski*

**Carl R. Schmidt, M.D., M.S.C.I.**

Assistant Professor of Clinical Surgery

**B.S.:** University of Michigan, Ann Arbor, Mich., 1995

**M.D.:** University of Michigan, Ann Arbor, Mich., 1999

**M.S.:** Vanderbilt University, Nashville, Tn., 2004

**Specialty Training:** General surgery residency, Vanderbilt University Medical Center, Nashville, Tenn.; surgical oncology fellowship, Memorial Sloan-Kettering Cancer Center, New York, N.Y.

**Appointment:** 2008

**Specialty Interests:** Gastrointestinal and hepatobiliary malignancies

**Research Interests:** Novel therapeutic strategies and imaging modalities for metastatic liver tumors



*Schmidt*

**Wiley W. “Chip” Souba, Jr., M.D.**

Professor of Surgery; Dean, The Ohio State University College of Medicine; Vice President for Health Sciences, The Ohio State University Medical Center

**B.S.:** Muskingum College, New Concord, Ohio, 1975

**M.D.:** University of Texas, Houston, Texas, 1978

**Sc.D.:** Harvard School of Public Health, Boston, Mass., 1984

**M.B.A.:** Boston University School of Management, Boston, Mass., 1998

**Specialty Training:** Residency in surgery, University of Texas, Houston, Texas; fellowship, Brigham and Women’s Hospital and the Dana-Farber Cancer Institute, Boston, Mass.; fellowship, University of Texas M.D. Anderson Cancer Center, Houston, Texas

**Appointment:** 2006

**Specialty Interests:** Leadership development; the academic medicine environment

**Research Interests:** Metabolism of glutamine



*Souba*



*Yee*

**Lisa D. Yee, M.D.**

Associate Professor of Surgery - Clinical

**B.A.:** University of California, San Diego, Calif., 1982

**M.D.:** Yale University, New Haven, Conn., 1986

**Specialty Training:** Mount Sinai Medical Center, Miami, Fla.

**Appointed:** 1996

**Specialty Interests:** General surgical oncology

**Research Interests:** Tumor progression and metastasis

## Resident Staff

**Sherif Abdel-Misih, M.D.**

PGY-6

**B.A.:** Franklin and Marshall College, Lancaster, Pa., 1997

**M.D.:** Jefferson Medical College, Philadelphia, Pa., 2003

**David Arrese, M.D.**

PGY-7

**B.S.:** Instituto Tecnológico de Santo Domingo, Dom Rep. 1998

**M.D.:** Instituto Tecnológico de Santo Domingo, Dom Rep. 2002

**Ravi J. Chokshi, M.D.**

PGY-7

**B.A.:** Ursinus College, 1999

**M.D.:** Ross University School of Medicine, 2003

## Mission

The Division of Surgical Oncology is dedicated to the evaluation and management of cancer and to cancer research and education.

## Accomplishments in Research

- Faculty members in the division published 36 articles, abstracts, and chapters.

## Active Research Grants

**Agnese DM.** A phase 3, multicenter, randomized trial of sentinel lymphadenectomy and complete lymph node dissection versus sentinel lymphadenectomy alone in cutaneous melanoma patients with molecular or histopathological evidence of metastases in the sentinel node. John Wayne Cancer Institute, June 1, 2006 – May 31, 2010, \$100.

**Bloomston M.** A phase 3, randomized, double-blind, placebo-controlled study of sorafenib as adjuvant treatment for hepatocellular carcinoma after surgical resection or local ablation. Covance, Inc., January 22, 2009 – December 31, 2013, \$11,607.

**Bloomston M.** A randomized, phase II trial comparing transarterial chemoembolization (TACE) to selective internal radiotherapy (SIRT) for unresectable carcinoid hepatic metastases. National Institutes of Health, National Cancer Institute, July 1, 2008 – June 30, 2010, \$35,000/year.

**Bloomston M.** Translational training grant in experimental therapeutics. National Institutes of Health, National Cancer Institute, September 9, 2008 – July 31, 2013, \$122,625/year.

**Bloomston M.** “Molecular mechanisms of muscle wasting in cancer cachexia.” National Institutes of Health (64000000). June 2009 – November 2014.

**Bloomston M.** “MicroRNA-21 expression and function in pancreatic adenocarcinoma.” National Cancer Institute (64000002). April 2009 – March 2014.

**Bloomston M.** “Novel JAK2/STAT3 inhibitors for pancreatic cancer therapy.” Research Institute at Nationwide Children’s Hospital (20010182). January 2010 – December 2013.

**Bloomston M.** “Phase II trial of selective internal radiotherapy (SIRT) using sir-spheres microspheres for metastatic neuroendocrine carcinoma.” Doris Duke Charitable Fdn (20012075). August 2009 – July 2012.

**Bloomston M.** “(ARRA-RC1) Evaluation pre and post analytical parameters on the quality of remnant surgical tissue for biomarker discovery.” National Institutes of Health (64000000). October 2009 – September 2011.

**Bloomston M.** “(ARRA) Identification of noncoding RNA biomarkers from tissue, serum and urine of patients with pancreatic precancerous lesions.” National Cancer Institute (64000002). September 2009 – September 2011.

**Bloomston M.** “MicroRNA-21 expression and function in pancreatic adenocarcinoma.” American Association For Cancer Research (20021206). July 2009 – June 2011.

**Carson WE III.** ADV-TK therapy in combination with surgery and chemoradiation for pancreas cancer. Advantagene, Inc., January 8, 2008 – December 31, 2012, \$17,204.

**Carson WE III.** Effect of IL-21 on antibody-dependent cellular toxicity mediated by an HER2/neu antibody and NK cell against breast carcinoma cells *in vitro* and *in vivo*. Zymogenetics, Inc., April 14, 2004 – July 31, 2009, \$74,600.

**Carson WE III.** Modulation of tumor CEA levels for an anti-CEA vaccine. National Cancer Institute, May 18, 2005 – April 30, 2009, \$583,587.

**Carson WE III.** A phase 1, open-label, dose escalation study of ANA773 tosylate, an oral prodrug of a toll-like receptor-7 agonist, in patients with advanced cancer. Anadys Pharmaceuticals, Inc., June 2, 2008 – December 31, 2012, \$21,277.

**Carson WE III.** A phase 1 study of PS-341 (bortezomib, Velcade) and interferon-alpha-2b in malignant melanoma. Millennium Pharmaceuticals, Inc., February 10, 2005 – March 31, 2010, \$32,100.

**Carson WE III.** A phase 2, multicenter, randomized, double-blind, placebo-controlled trial evaluating the efficacy and safety of bevacizumab in combination with carboplatin and paclitaxel chemotherapy. Genentech, Inc., June 8, 2007 – August 1, 2009, \$7,314.

**Carson WE III.** Tumor immunology. National Cancer Institute, June 1, 2008 – May 31, 2013, \$224,780.

**Eubank T, Carson WE III, Marsh CB, Ostrowski MC.** The mechanisms of GM-CSF inhibition of breast cancer growth and metastasis. National Cancer Institute, September 5, 2008 – August 31, 2010, \$5,241.

**Farrar WB.** Breast and bowel treatment protocols agreement. National Surgical Adjuvant Breast and Bowel Project Foundation, Inc., February 1, 2006 – January 31, 2010, \$105,415.

**Lee RJ, Carson WE III, Guan J, Lee LJ, Marcucci G.** Microfluidic synthesis of nanoparticles for oligonucleotide delivery. National Cancer Institute, March 20, 2008 – February 28, 2010, \$9,467.



**Lee LJ, Carson WE III, Lee RJ, Marcucci G, Wang S.** Novel micro/nanofluidic electroporation devices for DNA and oligonucleotide delivery. National Institute of Biomedical Imaging and Bioengineering, September 30, 2007 – August 31, 2010, \$10,309.

**Povoski SP, McKenney RR.** A phase 3, prospective, open-label, multicenter comparison study of Lymphoseek and vital blue dye as lymphoid tissue targeting agents in patients with known melanoma or breast cancer who are undergoing lymph node mapping. Neoprobe Corp., December 3, 2008 – June 30, 2010, \$874.

**Xu RX, Povoski S.** Development of an integrated dynamic breast imaging system for the early detection of breast cancer. Wallace H. Coulter Foundation, September 1, 2006 – August 31, 2009, \$228,932.

**Yee LD.** Dietary fatty acids, macrophages, and HER-2/neu-mediated mammary carcinogenesis. Army Medical Research Acquisition Activity, September 15, 2008 – September 14, 2011, \$450,000.

## Clinical Programs

- Comprehensive surgical oncology service.

## Accomplishments in Clinical Care

- Attending faculty in the division performed 1,748 operating room procedures and received 26,105 outpatient visits.

## Clinical Statistics

OR Procedures	1,831
Outpatient Visits	18,605
Admissions	839
Patient Days	5,392
Average Length of Stay (Days)	6.43



## Educational Programs

- Two-year fellowship in surgical oncology, which includes 18 months of clinical work and six months of basic research.
- Comprehensive rotation in surgical oncology for third- and fourth-year residents in general surgery.
- Subinternship in surgical oncology.

## Accomplishments in Education

- Completion of the fellowship in surgical oncology by Dr. Sherif Abdel-Misih.
- Dr. David Arrese and Dr. Ravi Chokshi began surgical oncology fellowships.

## Publications

**Abdel-Misih S, Schmidt C, Bloomston M.** Update & review of the multidisciplinary management of stage IV colorectal cancer with liver metastases. *World Journal of Surgical Oncology* 2009;September 7:72.

**Agrawal S, Kane JM 3rd, Guadagnolo BA, Kraybill WG, Ballo MT.** The benefits of adjuvant radiation therapy after therapeutic lymphadenectomy for clinically advanced, high-risk, lymph node-metastatic melanoma. *Cancer* 2009;115(24):5836-5844.

**Albain KS, Barlow WE, Ravdin PM, Farrar WB, Burton GV, Ketchel SJ, Cobau CD, Levine EG, Ingle JN, Pritchard KI, Lichter AS, Schneider DJ, Abeloff MD, Henderson IC, Muss HB, Green SJ, Lew D, Livingston RB, Martino S, Osborne CK.** Adjuvant chemotherapy and timing of tamoxifen in postmenopausal patients with endocrine-responsive, node-positive breast cancer: a phase 3, open-label, randomized controlled trial for the breast cancer intergroup of North America. *The Lancet* 2009;374(12)2055-2063.

**Al-Saif O, Farrar WB, Bloomston M, Porter K, Ringel MD, Kloos RT.** Long-term efficacy of lymph node reoperation for persistent papillary thyroid cancer. *J Clin Endocrinol Metab* 2010;95(5):2187-94.

**Andersen BL, Thornton LM, Shapiro CL, Farrar WB, Mundy BL, Yang HC, Carson WE 3rd.** Biobehavioral, immune, and health benefits following recurrence for psychological intervention participants. *Clin Cancer Res* 2010;16(12):3270-3277.

**Bekaii-Saab TS, Roda JM, Guenterberg KD, Ramaswamy B, Young DC, Ferketich AK, Lamb TA, Grever MR, Shapiro CL, Carson WE.** A phase I trial of paclitaxel and trastuzumab in combination with interleukin-12 in patients with HER2/neu-expressing malignancies. *Mol Cancer Ther* 2009; 8(11):2983-91.

**Bhave NS, Carson WE.** Immune modulation with interleukin-21. *Ann N Y Acad Sci* 2009; Dec;1182:39-46.

**Bill MA, Fuchs JR, Li C, Yui J, Bakan C, Benson Jr DM, Schwartz EB, Abdelhamid D, Lin J, Hoyt DG, Fossey SL, Young GS, Carson WE 3rd, Li PK, Lesinski GB.** The small molecule curcumin analog FLLL32 induces apoptosis in melanoma cells via STAT3 inhibition and retains the cellular response to cytokines with anti-tumor activity. *Mol Cancer* 2010; 9(1):165.

**Bloomston M, Kneile J, Butterfield M, Dillhoff M, Muscarella P, Ellison EC, Melvin WS, Croce CM, Pichiorri F, Huebner K, Frankel WL.** Coordinate Loss of Fragile Gene Expression in Pancreatobiliary Cancers: Correlations Among Markers and Clinical Features. *Ann Surg Oncol* 2009;16(8):2331-8 (IF: 3.898).

**Burt RD, Barthel JS, Dunn KB, David DS, Drelichman E, Ford JM, Giardiello FM, Gruber SB, Halverson AL, Hamilton SR, Ismail MK, Jasperson K, Lazenby AJ, Lynch PM, Martin EW Jr, Mayer RJ, Ness RM, Provenzale D, Rao MS, Shike M, Steinbach G, Terdiman JP, Weinberg D.** NCCN Clinical practice guidelines in oncology. Colorectal cancer screening. *J Natl Compr Canc Netw* 2010; 1(8):8-61.

**Butchar JP, Mehta P, Justiniano SE, Guenterberg KD, Kondadasula SV, Mo X, Chemudupati M, Kanneganti TD, Amer A, Muthusamy N, Jarjoura D, Marsh CB, Carson WE 3rd, Byrd JC, Tridandapani S.** Reciprocal regulation of activating and inhibitory Fc{gamma} receptors by TLR7/8 activation: implications for tumor immunotherapy. *Clin Cancer Res* 2010; 16(7):2065-75.

**Chokshi R, Abdel-Misih S, Bloomston M.** Surgical management of colorectal cancer: A review of the literature. *Indian Journal of Surgery* 2009;71(6):350-355.

**Collins A, Bloomston M.** Diagnosis and management of pancreatic cancer. *Minerva Gastroenterol Dietol* 2009; 55(4):445-454.

**Guenterberg KD, Grignol VP, Raig ET, Zimmerer JM, Chan AN, Blaskovits FM, Young GS, Nuovo GJ, Mundy BL, Lesinski GB, Carson WE.** Interleukin-29 binds to melanoma cells inducing Jak-STAT signal transduction and apoptosis. *Mol Cancer Ther* 2010; 9(2):510-20.

**Guenterberg KD, Grignol VP, Relekar KV, Varker KA, Chen HX, Kendra KL, Olencki TE, Carson WE 3rd.** A pilot study of Bevacizumab and Interferon-alpha2b in ocular melanoma. *Am J Clin Oncol* 2010; May 7.

**Hall NC, Povoski SP, Murrey DA, Martin EW, Knopp MV.** Ex Vivo specimen FDG PET/CT imaging for oncology. *Radiology* 2009; 2(255):663-4.

**Hall NC, Zhang J, Povoski SP, Martin EW, Knopp MV.** New developments in imaging and functional biomarker technology for the assessment and management of cancer patients. *Expert Rev Med Devices* 2009; 4(6):347-51.

**Hatzaras I, George N, Muscarella P, Melvin WS, Ellison EC, Bloomston M.** Predictors of Survival in Periapillary Cancers Following Pancreaticoduodenectomy. *Ann Surg Oncol* 2010; 17(4):991-7. Epub 2010 January 28.

**Hatzaras I, Schmidt C, Muscarella P, Melvin WS, Ellison EC, Bloomston M.** Elevated CA 19-9 portends poor prognosis in patients undergoing resection of biliary malignancies. *HPB* 2010;12(2):134-8.

**Haubert L, Yearsley, Bloomston M.** Hepatocellular Carcinoma Arising within Focal Nodular Hyperplasia. *Am Surg* 2010; 76(3): 335-6.

**Jones NB, Hatzaras I, George N, Muscarella P, Ellison EC, Melvin WS, Bloomston M.** Clinical factors predictive of malignant and premalignant cystic neoplasms of the pancreas: a single institution experience. *HPB* 2009;11(8):664-70.

**Kaumaya PT, Foy KC, Garrett J, Rawale SV, Vicari D, Thurmond JM, Lamb T, Mani A, Kane Y, Balint CR, Chalupa D, Otterson GA, Shapiro CL, Fowler JM, Grever MR, Bekaii-Saab TS, Carson WE.** Phase I active immunotherapy with combination of two chimeric, human epidermal growth factor receptor 2, B-cell epitopes fused to a promiscuous T-cell epitope in patients with metastatic and/or recurrent solid tumors. *J Clin Oncol* 2009; 27(31):5270-7.

**Lesinski GB, Benninger K, Kreiner M, Quimper M, Young G, Carson WE.** Bortezomib pre-treatment prolongs interferon-alpha-induced STAT1 phosphorylation in melanoma cells. *Cancer Immunol Immunother* 2009; 58(12):2031-7.

**Lesinski GB, Zimmerer JM, Kreiner M, Trefry J, Bill MA, Young GS, Becknell B, Carson WE 3rd.** Modulation of SOCS protein expression influences the interferon responsiveness of human melanoma cells. *BMC Cancer* 2010; 14(10):142.

**Li H, Lu Y, Piao L, Wu J, Yang X, Kondadasula SV, Carson WE, Lee RJ.** Folate-immunoglobulin G as an anticancer therapeutic antibody. *Bioconjug Chem* 2010; 21(5):961-8.

**Mani A, Roda J, Young D, Caligiuri MA, Fleming GF, Kaufman P, Brufsky A, Ottman S, Carson WE, Shapiro CL.** A phase II trial of trastuzumab in combination with low-dose interleukin-2 (IL-2) in patients (PTS) with metastatic breast cancer (MBC) who have previously failed trastuzumab. *Breast Cancer Res Treat* 2009; 117(1):83-9.

**Marsh JW, Schmidt C.** The Milan criteria: no room on the Metro for the king? *Liver Transplantation* 2010; 16:252-5.

**Meguerditchian AN, Wang J, Lema B, Kraybill WG, Zeitouni NC, Kane JM 3rd.** Wide Excision or Mohs Micrographic Surgery for the Treatment of Primary Dermatofibrosarcoma Protuberans. *Am J Clin Oncol* 2009; Oct 23.

**Murrey D, Bahnson E, Hall N, Povoski S, Mojzisik C, Young D, Sharif S, Johnson M, Abdel-Misih S, Martin E, Knopp M.** Perioperative 18F-FDG imaging using the Becquerel as a quantitative measure for optimizing surgical resection in patients with advanced malignancy. *The American Journal of Surgery* 2009; 198(6):834-840.

**Nau P, Melvin WS, Narula VK, Bloomston PM, Ellison EC, Muscarella P.** Laparoscopic Distal Pancreatectomy with Splenic Conservation: An Operation without Increased Morbidity. *Gastroenterol Res Pract* 2009;2009:846340.

**Povoski SP, Jimenez RE, Wang WP, and Xu RX.** Standardized and reproducible methodology for the comprehensive and systematic assessment of surgical resection margins during breast-conserving surgery for invasive breast cancer. *BMC Cancer* 2009; 9(1):254.

**Quick AM, Bloomston M, Kim EY, Hall NC, Mayr NA.** Complete response to radiation therapy of orbital metastasis from hepatocellular carcinoma. *World J Gastroenterol* 2009;15(47):6000-3.

**Ross S, Thometz D, Serafini F, Bloomston M, Morton C, Zervos E, Rosemurgy A.** Renal haemodynamics and function following partial portal decompression. *HPB (Oxford)* 2009;11(3):229-34.

**South CD, Yearsley M, Martin E, Arnold M, Frankel W, Hampel H.** Immunohistochemistry staining for the mismatch repair proteins in the clinical care of patients with colorectal cancer. *Genet Med* 2009; 11(11):812-7.

**Thornton LM, Andersen BL, Schuler TA, Carson WE.** A psychological intervention reduces inflammatory markers by alleviating depressive symptoms: secondary analysis of a randomized controlled trial. *Psychosom Med* 2009; 71(7):715-24.

**Trimbola AJ, Cantemir-Stone CZ, Li F, Wallace JA, Merchant A, Creasap N, Thompson JC, Caserta E, Wang H, Chong JL, Naidu S, Wei G, Sharma SM, Stephens JA, Fernandez SA, Gurcan Mn, Weinstein MB, Barsky SH, Yee L, Rosol TJ, Stromberg PC, Robinson ML, Pepin F, Hallett M, Park M, Ostrowski MC, Leone G.** Pten in stromal fibroblasts suppresses mammary epithelial tumors. *Nature* 2009; 461(7267):1084-1091.

**Tuttle RM, Ball DW, Byrd D, Daniels GH, Dilawari RA, Doherty GM, Duh QY, Ehya H, Farrar WB, Haddad RI, Kandeel F, Kloos RT, Kopp P, Lamonica DM, Loree TR, Lydiatt WM, McCaffrey J, Olson Jr. JA, Parks L, Ridge JA, Shah JP, Sherman SI, Sturgeon C, Waguespack SG, Wang TN, Wirth LJ.** Medullary carcinoma clinical practice guidelines in oncology. *JNCCN* 2010; 8;512-530.

**Volinia S, Galasso M, Costinean S, Tagliavini L, Gamberoni G, Drusco A, Marchesini J, Mascellani N, Sana ME, Abu Jarour R, Despons C, Teitell M, Baffa R, Aqeilan R, Iorio MV, Taccioli C, Garzon R, Di Leva G, Fabbri M, Catozzi M, Previati M, Ambs S, Palumbo T, Garofalo M, Veronese A, Bottoni A, Gasparini P, Harris CC, Visone R, Pekarsky Y, de la Chapelle A, Bloomston M, Dillhoff M, Rassenti LZ, Kipps TJ, Huebner K, Pichiorri F, Lenze D, Cairo S, Buendia MA, Pineau P, Dejean A, Zanesi N, Rossi S, Calin GA, Liu CG, Palatini J, Negrini M, Vecchione A, Rosenberg A, Croce CM.** Reprogramming of miRNA networks in cancer and leukemia. *Genome Res* 2010; 20(5):589-99.

**Wang PS, Chou FS, Bloomston M, Vonau MS, Saji M, Espinosa A, Pinzone JJ.** Thiazolidinediones Downregulate Wnt/beta-Catenin Signaling Via Multiple Mechanisms in Breast Cancer Cells. *J Surg Res* 2009;153(2):210-6 (IF:1.875).

**Xu JS, Huang J, Qin R, Hinkle GH, Povoski SP, Martin EW, Xu Rx.** Synthesizing and binding dual-mode poly (lactic-co-glycolic acid)(PLGA) nanobubbles for cancer targeting and imaging. *Biomaterials* 2010; 7(31):1716-22.

**Xu RX, Povoski SP, Martin EW Jr.** Targeted delivery of microbubbles and nanobubbles for image-guided thermal ablation therapy of tumors. *Expert Rev Med Devices* 2010; 3(7):303-306.

**Yee LD, Lester JL, Cole RM, Richardson JR, Hsu JC, Li Y, et al.** Omega 3 fatty acid supplements in women at high risk for breast cancer show dose dependent effects on breast adipose fatty acid composition. *The American Journal of Clinical Nutrition* 2010; 91:1185-1194.

## Visiting Professorships

**Bloomston M.** Surgical and nonsurgical management of neuroendocrine carcinoma. University of South Florida, Department of Surgery Grand Rounds, Tampa, Fla., March 29, 2010.

**Bloomston M.** Hypoxia-related MiR-21 induction is mediated by HIF-1 $\alpha$  in pancreatic cancer. University of South Florida, Department of Surgery Grand Rounds, Tampa, Fla., March 29, 2010.

**Carson WE.** Proteasome inhibition in clinical practice. Millenium, Inc., Boston, Mass., November 4, 2009.

## International Presentations

**Bloomston M.** The surgical and non-surgical management of neuroendocrine carcinoma. Department of Surgery Grand Rounds. University of Hong Kong, Hong Kong. October 2009.

**Bloomston M.** The role of MicroRNAs in pancreatic cancer. Department of Surgery Grand Rounds. University of Hong Kong, Hong Kong. October 2009.

**Bloomston M.** The surgical and non-surgical management of neuroendocrine carcinoma. Department of Surgery Grand Rounds. Flinders University, Adelaide, Australia. October 2009.

**Bloomston M.** The role of MicroRNAs in pancreatic cancer. Department of Surgery Grand Rounds. Flinders University, Adelaide, Australia. October 2009.

## National Presentations

**Abdel-Misih S, Broome J, Li X, Arrese D, Chambers E, Jacobs JK, Phay JE.** Changing intraoperative parathyroid hormone collection sites from peripheral to central does not affect predictive accuracy during parathyroidectomy. American Association of Endocrine Surgeons, Annual Meeting, Pittsburg, Pa., April 19, 2010.

**Abdel-Misih SRZ, Hatzaras I, Schmidt C, Bekaii-Saab, TS, Klemanski D, Muscarella P, Melvin WS, Ellison EC, Bloomston M.** Failure of normalization of CA19-9 following resection for pancreatic cancer is tantamount to metastatic disease. Society of Surgical Oncology, Annual Cancer Symposium. St. Louis, Mo., March 5, 2010.

**Byrd J, Caligiuri M, Carson WE, Hofacker J, Neki P, Paskett E, Ramaswamy B, Thomas J.** A comprehensive program, the enhancement of accrual to therapeutic clinical trials. NCI/ASCO Cancer Trial Accrual Symposium: Science and Solutions, Plenary Session. Washington, DC. April 29, 2010.

**Carson WE.** Bevacizumab therapy of melanoma. Genetech Advisory Board for Bevacizumab in Melanoma. San Francisco, Calif., July 24, 2009.

**Collins A, Abdel-Misih S, Hatzaras I, Muscarella P, Melvin WS, Ellison EC, Schmidt C, Bloomston M.** Splenic preservation at the time of distal pancreatectomy is of limited clinical benefit. Annual National Predoctoral Clinical Research Training Program Meeting, Washington University, St. Louis, Mo., March 6, 2010.

**Feria-Arias E, Arrese D, Hatzaras I, Schmidt C, Shah M, Bloomston M.** Transarterial chemo-embolization in patients with metastatic carcinoid amenable to cytoreductive hepatectomy results in improved survival but similar regional disease control compared to those deemed inoperable. North American NeuroEndocrine Tumors Society, NeuroEndocrine Tumor Symposium, Charlotte, NC, 2009.

**Hatzaras I, Schmidt C, Klemanski D, Muscarella P, Melvin WS, Ellison EC, Bloomston M.** Pancreatic resection in the octogenarian: a safe option for pancreatic malignancy. American College of Surgeons, Ohio Chapter Meeting, Cleveland, Ohio, 2010.

**Hatzaras I, Schmidt C, Klemanski D, Muscarella P, Melvin WS, Ellison EC, Bloomston M.** Pancreatic resection in the octogenarian: a safe option for pancreatic malignancy. Society of Surgical Oncology, Annual Cancer Symposium, St. Louis, Mo., March 5, 2010.

**Kauffmann R, Phay JE.** Persistent hypercalcemia after 3.5 gland removal. American Association of Endocrine Surgeons, Annual Meeting, Madison, Wis., May 5, 2009.

**Limmer KK, Povoski SP, Krontiras H, Cox CE, Michna BA, Avisar E, Faries MB, Schneebaum S, Wallace AM.** Phase III trial results comparing lymphoseek with blue dye in detection of the sentinel lymph node in breast cancer. San Antonio Breast Cancer Symposium, Annual Meeting, San Antonio, Tex., December 11, 2009.

**Murrey DA, Bahnson EE, Mojzisik CM, Bahnson RR, Hall NC, Povoski SP, Martin EW, Knopp MV.** Validation of targeted molecular imaging using surgical specimens: a feasibility assessment using 124I-cG250 Monoclonal Antibody PET/CT in clear cell renal cell carcinoma. American College of Surgeons, Annual Surgical Forum, New Orleans, La., October 12, 2009.

**Phay JE, Koch S, Printz R.** Oncogenic H-Ras effects on glucose transporter and hexokinase RNA stabilization. Academic Surgical Congress, San Antonio, TX., February 5, 2010.

**Xu RX, Xu JS, Huang J, Sun D, Carlton M, Povoski SP, Knopp, MV, Martin, EW.** Multimodal intraoperative imaging of cancer (OP-10-1-9C). Biomedical Engineering Society (BMES), Annual Fall Scientific Meeting, Pittsburgh, Pa., October 10, 2009.

**Xu RX, Xu JS, Huang J, Tweedle MF, Schmidt C, Povoski SP, Martin EW.** Targeted delivery of cancer-specific multimodal contrast agents for intraoperative detection of tumor boundaries and therapeutic margins. SPIE Photonics West 2010, San Francisco, Calif., January 26, 2010.

## Miscellaneous Presentations

**Agnese DM.** Evaluation and management of women at increased risk for breast cancer. The Ohio State University, OB/GYN Grand Rounds, Columbus, Ohio, July 16, 2009.

**Bloomston M.** Surgical updates. The Ohio State University, Colorectal Conference for Survivors and Caregivers, Columbus, Ohio, April 10, 2010.

**Carson WE.** Her2/neu peptide vaccine, clinical trials update. The Ohio State University, Annual Scientific Meeting, Columbus, Ohio, February 19, 2010.

**Phay JE.** Surgical management of medullary and anaplastic thyroid cancer. The Ohio State University, Otolaryngology – Head and Neck Surgery Grand Rounds, Columbus, Ohio, October 18, 2009.

**Pons ME, Chokshi RJ, Bahnson RR, Martin EW.** Double-barreled wet colostomy in patients undergoing a pelvic exenteration leaves patients with a single stoma. The Ohio State University, Klassen Surgical Research Day, Columbus, Ohio, April 8, 2010.

**Povoski SP.** Breast Diseases. Hyatt on Capital Square, Columbus Comprehensive Review, Columbus, Ohio, September 20, 2009.

**Yee LD.** Of mice and women: omega 3 fatty acids and breast cancer prevention. The Ohio State University, Annual Russell Klein Nutrition Research Symposium, Columbus, Ohio, June 4, 2010.

**Yee LD.** Dietary fat and breast cancer: models of human consumption. The Ohio State University, Nutrition and Cancer course, Human Nutrition 830.12, Columbus, Ohio, June 1, 2010.

## Distinguished Visiting Professor

**Raphael E. Pollock, M.D., PH.D.**

Professor and Chairman

Department of Surgical Oncology

Head, Division of Surgery

University of Texas M.D. Anderson Cancer Center, Houston, Texas

The Michael J. Walker, M.D. Memorial Lecture in Surgical Oncology: “New Approaches To Soft Tissue Sarcoma”

September 25, 2009



# Transplantation



**Mitchell L. Henry, M.D.**  
Chief, Division of Transplantation

**T**he Division of Transplantation continues to combine a busy clinical transplant program with a diverse and productive research effort. Within the Comprehensive Transplant Center (CTC), the division has embarked on a number of collaborative, interdisciplinary endeavors to enhance both the clinical activities and the basic research efforts in transplantation at The Ohio State University Medical Center. The CTC's team of specialists are pursuing areas of common interest in transplantation, including immunopharmacology, immune assessment and monitoring, immune engineering, information systems, biostatistics, clinical trials, public policy and ethical considerations, and communications and public relations.

Gregg Hadley, Ph.D., professor of surgery, director of the Tissue Typing Laboratory, and deputy director of research in the Comprehensive Transplant Center, continued his research examining transplant rejection and graft-versus-host pathology and the development of strategies for therapeutic intervention in these processes. In other basic science research, Dr. Ginny Bumgardner continued her research in hepatocyte and islet transplant murine models, and Dr. Ronald Pelletier continued his National Institutes of Health-funded work on chronic allograft rejection and immune tolerance. Dr. Amer Rajab published the outcomes of islet transplantation in nonhuman primate models.

Clinically, the volume of kidney and pancreas transplantation remains high, buoyed by a strong living-donor program. Under the guidance of Dr. Amer Rajab, the division's initiative for clinical transplantation of islet cells into Type 1 diabetic patients is conducting evaluations of patients for the islet cell transplant waiting list. Several successful auto-islet transplantations have been performed. The division continues to conduct clinical trials examining new and innovative immunosuppressive regimens in the post-transplant patient.

Members of the division faculty continue to participate in national organizations, including the American Society of Transplant Surgeons (ASTS), the United Network for Organ Sharing (UNOS), and the Vascular Access Society of the Americas (VASA). Dr. Mitchell Henry serves as president of VASA and is the president-elect of ASTS. Dr. Ginny Bumgardner serves on the board of directors of the American Association for the Study of Liver Diseases (AASLD). Dr. Kenneth Andreoni serves as chair of the kidney committee at UNOS.

Dr. Anas Alzuhaili, previously a resident at Damascus University Hospitals, in Damascus, Syria, continues the second year of the fellowship in transplantation. In June 2010, Dr. Yusuf Gunay and Dr. Srinivas Samavedi completed the fellowship in transplantation. Dr. Gunay began a laparoscopic fellowship at the University of Iowa. Dr. Samavedi began an appointment as assistant professor of urology, Nizams Institute of Medical Sciences, Hyderabad, India.

## Faculty

### **Mitchell L. Henry, M.D.**

Professor of Surgery; Chief, Division of Transplantation; Deputy Director of Surgical Services, Comprehensive Transplant Center

**B.S.:** University of Nebraska, Lincoln, Ne., 1976

**M.D.:** University of Nebraska, Omaha, Ne., 1979

**Specialty Training:** The Ohio State University, Columbus, Oh.

**Appointment:** 1985

**Specialty Interests:** Transplantation, immunosuppression

**Research Interests:** Pancreatic transplantation, xenotransplantation



*Henry*

### **Kenneth A. Andreoni, M.D.**

Associate Professor of Surgery; Director, Liver Transplantation

**B.S.:** Georgetown University, Washington, D.C., 1984

**M.D.:** Yale University, New Haven, Ct., 1988

**Specialty Training:** Johns Hopkins University Hospital, Baltimore, Md.; The Ohio State University, Columbus, Oh.

**Appointment:** 2008

**Specialty Interests:** Liver transplantation

**Research Interests:** New anti-rejection drugs, antibody-mediated injury to liver, kidney grafts



*Andreoni*

### **Ginny L. Bumgardner, M.D., Ph.D.**

Professor of Surgery; Associate Dean for Research Education, College of Medicine; Director, Master of Medical Science Program

**B.S.:** College of William and Mary, Williamsburg, Va., 1979

**M.D.:** University of Virginia, Charlottesville, Va., 1983

**Ph.D.:** University of Minnesota, Minneapolis, Mn., 1994

**Specialty Training:** University of Minnesota, Minneapolis, Mn.; University of California at San Francisco, Ca.

**Appointment:** 1993

**Specialty Interests:** Transplantation, immunosuppression, post-transplant pregnancy, liver disease and transplantation

**Research Interests:** Transplantation immunology, liver immunobiology, cellular transplantation



*Bumgardner*

**Elizabeth Ann Davies, M.D.**

Clinical Assistant Professor of Surgery

**B.S.:** University of Akron, Akron, Oh., 1979

**M.D.:** Northeastern Ohio Universities, Rootstown, Oh., 1983

**Specialty Training:** The Ohio State University, Columbus, Oh.

**Appointment:** 1993

**Specialty Interests:** Transplantation, immunosuppression

**Research Interests:** Transplantation, organ procurement



*Davies*

**Elmahdi A. Elkhammas, M.D.**

Professor of Clinical Surgery

**M.D.:** Gar-Younis University, Benghazi, Libya, 1977

**Specialty Training:** The Ohio State University, Columbus, Oh.

**Appointment:** 1991

**Specialty Interests:** Transplantation, immunosuppression

**Research Interests:** Liver transplantation, urologic complications



*Elkhammas*

**Gregg A. Hadley, Ph.D.**

Professor of Surgery; Director, Tissue Typing Laboratory; Deputy

Director of Research, Comprehensive Transplant Center

**B.S.:** Purdue University, West Lafayette, In., 1975

**M.S.:** University of Iowa, Iowa City, Ia, 1979

**Ph.D.:** University of Minnesota, Minneapolis, Mn., 1986

**Specialty Training:** Washington University School of Medicine, St. Louis, Mo.

**Appointment:** 2006

**Specialty Interests:** Transplant immunology

**Research Interests:** Mechanisms of organ transplant rejection and graft-versus-host disease



*Hadley*

**Ronald P. Pelletier, M.D.**

Associate Professor of Surgery; Director, Kidney Transplantation

**B.S.:** Trinity College, Hartford, Ct., 1979

**M.D.:** University of Cincinnati, Cincinnati, Oh., 1987

**Specialty Training:** The Ohio State University, Columbus, Oh.

**Appointment:** 1996

**Specialty Interests:** Pre- and post-transplant immune status monitoring

**Research Interests:** Pathophysiology of chronic rejection



*Pelletier*

**Amer Rajab, M.D., Ph.D.**

Associate Professor of Surgery; Director, Pancreas and Islet Transplantation

**M.D.:** Damascus University, Damascus, Syria, 1983

**Ph.D.:** Lund University, Lund, Sweden, 1991

**Specialty Training:** University of Texas Southwestern Medical Center, Dallas, Texas

**Appointment:** 2001

**Specialty Interests:** Organ transplantation

**Research Interests:** Islet transplantation



*Rajab*

## Emeritus Faculty

**Ronald M. Ferguson, M.D., Ph.D.**

Professor Emeritus of Surgery

**B.S.:** Augsburg College, Minneapolis, Mn., 1967

**M.D.:** Washington University, St. Louis, Mo., 1971

**Ph.D.:** University of Minnesota, Minneapolis, Mn., 1982

## Fellows

**Anas Alzuhaili, M.D.**

Transplantation Fellow/Clinical Instructor of Surgery

**M.D.:** Damascus University, Damascus, Syria, 2001

**Yusuf Gunay, M.D.**

Transplantation Fellow/Clinical Instructor of Surgery

**M.D.:** Ankara University, Ankara, Turkey, 1999

**Srinivas Samavedi, M.D.**

Transplantation Fellow/Clinical Instructor of Surgery

**M.D.:** Kakatiya Medical College, Warangal, India, 1992

## Rotating Resident Staff

**Joshua Chung, M.D.**

PGY-3, Riverside Methodist Hospital

**B.S.:** Andrews University, Berrien Spring, Michigan, 2003

**M.D.:** Loma Linda University School of Medicine, Loma Linda, Maryland, 2007

**Suzanne Gozdanovic, M.D.**

PGY-3, Mount Carmel Health System

**B.S.:** Miami University, Oxford, Ohio, 2003

**M.D.:** Wright State University School of Medicine, Dayton, Ohio, 2007

**Scott Hinze, D.O.**

PGY-4, Doctors Hospital

**D.O.:** Des Moines University, Des Moines, Iowa, 2006

**Mark Jump, D.O.**

PGY-4, Doctors Hospital

**D.O.:** Ohio University, Athens, Ohio, 2006

**Jarom Lamb, M.D.**

PGY-3, Mount Carmel Health System

**B.S.:** Brigham Young University, Provo, Utah, 2002

**M.D.:** The Ohio State University, Columbus, Ohio, 2007

**James Pan, M.D.**

PGY-2, Riverside Methodist Hospital

**B.S.:** Youngstown University, Youngstown, Ohio, 2002

**M.D.:** Northeastern Ohio Universities College of Medicine, Rootstown, Maryland, 2007

**Maurice-Pierre Page, M.D.**

PGY-3, Mount Carmel Health System

**B.S.:** University of Kentucky, Lexington, Kentucky, 2003

**M.D.:** University of Kentucky College of Medicine, Lexington, Kentucky, 2007

**Murtaza Shakir, M.B.B.S.**

PGY-3, Riverside Methodist Hospital

**M.B.B.S.:** Aga Khan Medical College, Karachi, Pakistan, 2005

**Carla Skytta, D.O.**

PGY-4, Doctors Hospital

**D.O.:** Ohio University, Athens, Ohio, 2006

## Mission

The Division of Transplantation is dedicated to building upon a solid foundation of basic, translational, and clinical research in order to define and develop the next generation of high-quality, comprehensive, cost-effective transplant programs.

## Research Programs

- Transplant rejection
- Allograft acceptance and transplant tolerance
- Novel immunologic strategies for islet cell transplantation
- Cellular transplantation
- New immunosuppressive compounds

## Accomplishments in Research

- **Gregg A. Hadley, Ph.D.** serves as Director of the Tissue Typing Laboratory, and Deputy Director of Research in the Comprehensive Transplant Center. He leads a research program focused on defining mechanisms of chronic tissue injury following transplantation, and the development of novel therapeutic strategies for intervention in these processes.
- **Dr. Ronald Pelletier** continues the division's investigations into the immunobiology of graft acceptance and the role of alloantibodies in allograft pathobiology. Our recent studies addressing transplantation tolerance suggest that allograft acceptance may evolve through a series of mechanisms involving TGF $\beta$  and foxP3 regulatory cells. These mechanisms are associated with donor-reactive alloantibodies and pathology within the grafts, and do not lead to true transplantation tolerance, despite the ability to accept donor matched skin allografts. Our ongoing studies of the role of alloantibodies in transplantation reveal that alloantibodies are not necessarily directed at MHC molecules, but are also directed at tissue-associated and tissue-specific molecules. Using new experimental assays for alloantibody detection, our studies have further revealed that some, but not all, of these antibodies are complement-fixing. Investigational studies focusing on humoral allograft rejection in an animal model are designed to carefully characterize the acute inflammatory events leading to Ab-mediated graft damage. We hope to define stages in the process that offer opportunities for therapeutic intervention to ameliorate graft damage.

- **Translational Research in Immunologic Recognition and Post-Transplant Outcomes.** Dr. Ronald Pelletier continues his translational research (basic, tissue typing, and clinical) investigating the relationship between cellular and humoral donor-specific immunologic recognition and post-transplant outcomes. Efforts are now under way to foster living donor/recipient pair exchanges to enable increasing numbers of patients to obtain a lifesaving kidney transplant. Additionally, methods for removing circulating alloantibodies in sensitized recipients to permit safe organ transplantation continue to be investigated.
- **Transplantation Immunobiology.** Dr. Ginny Bumgardner continues her investigations in transplant immunobiology, using experimental models of pancreatic islet and hepatocyte (liver cell) transplantation. Studies include a research project that focuses on understanding how a novel CD8<sup>+</sup> T cell-dependent pathway is activated after transplant, and how its activation and effector function can be suppressed by immunotherapy in primary and sensitized transplant recipients. This pathway is important, because it can cause transplant tissue damage, either early or late after transplant, and interferes with the induction of transplantation tolerance. Dr. Bumgardner's laboratory was the first to report the efficacy of a novel immunosuppressive strategy that successfully suppresses this immunoresistant (CD4-independent) CD8<sup>+</sup> T cell mediated immune pathway and promotes long-term allograft survival. Very little is known regarding how CD8<sup>+</sup> T cells cause immune damage of allografts and in vivo effector functions of alloreactive CD8<sup>+</sup> T cells is a specific focus for investigation. Our lab is also investigating CD4-dependent humoral immune pathways of allograft damage. These and other projects have been funded by external sponsors, such as the American Diabetes Association, the Roche Organ Transplant Research Foundation, the American Society of Transplant Surgeons, the American Society of Transplantation and the National Institutes of Health.

## Active Research Grants

**Elkhammas EA, Bumgardner GL, Ferguson RM, Henry ML, Pelletier RP, Rajab A.** Conversion from calcineurin inhibitor treatment to sirolimus treatment vs. continued calcineurin inhibitor treatment in liver allograft recipients undergoing maintenance therapy. Wyeth-Ayerst Research, September 19, 2002 – January 31, 2012, \$60,118.

**Elkhammas EA, Ferguson RM, Henry ML, Pelletier RP.** A facilitated access program to provide everolimus (RAD) for maintenance for patients completing therapy in RAD trials in solid organ transplantation. Novartis Pharmaceuticals Corp., February 17, 2004 – June 30, 2010, \$8,175.

**Elkhammas EA, Ferguson RM, Pelletier RP, Henry ML.** A facilitated access program to provide everolimus (RAD) for maintenance for patients completing therapy in RAD trials in solid organ transplantation. Novartis Pharmaceuticals Corp., February 17, 2004 – June 30, 2010, \$7,088.



**Elkhammas EA, Ferguson RM, Pelletier RP, Henry ML, Bumgardner GL, Rajab A.** Conversion from calcineurin inhibitor treatment to sirolimus treatment versus continued calcineurin inhibitor treatment in liver allograft recipients undergoing maintenance therapy. Wyeth-Ayerst Research, September 19, 2002 – January 31, 2012, \$298,260.

**Ferguson RM, Henry ML, Pelletier RP, Rajab A.** A facilitated access program to provide everolimus (RAD) for maintenance for patients completing therapy in RAD trials in solid organ transplantation. Novartis Pharmaceuticals Corp., February 17, 2004 – June 30, 2010, \$10,923.

**Ferguson RM, Pelletier RP, Henry ML, Rajab A.** A facilitated access program to provide everolimus (RAD) for maintenance for patients completing therapy in RAD trials in solid organ transplantation. Novartis Pharmaceuticals Corp., February 17, 2004 – June 30, 2010, \$14,500.

**Hadley GA.** Blockade of CS103 as a means to prevent tubular injury following allogeneic renal transplantation. American Society of Transplantation, July 1, 2007 – June 30, 2009, \$80,000.

**Hadley GA.** Kidney-restricted CTL and allograft rejection. National Institute of Allergy and Infectious Diseases, April 1, 2007 – March 31, 2011, \$321,486.

**Hadley GA.** Role of CD103 in late loss of pancreatic islet allografts. Roche Organ Transplantation Research Foundation, March 1, 2007 – February 28, 2010, \$52,630.

**Horne PH, Bumgardner GL.** CD4-independent, CD8+ T cell-mediated alloimmunity studied through a hepatocellular allograft model. American Society of Transplantation, July 1, 2006 – June 30, 2009, \$30,000.

**Pelletier RP.** Acute humoral rejection of renal allografts. Cleveland Clinic Foundation, July 1, 2007 – June 30, 2012, \$183,938.

**Rajab A, Ferguson RM, Henry ML, Pelletier RP.** Rapid four-day steroid withdrawal with thymoglobulin induction and maintenance immunosuppression with sirolimus and mycophenolate in primary cadaveric renal transplantation. Wyeth Pharmaceuticals, Inc., December 1, 2005 – December 1, 2009, \$164,296.

**Zimmerer JM, Bumgardner GL, Hadley GA.** CD8+ T cell regulation of alloantibody production following transplantation. National Institute of Diabetes and Digestive and Kidney Diseases, May 1, 2009 – April 30, 2011, \$48,826.

## Clinical Programs

- Pre-transplant
- Post-transplant and transplant wellness. The program currently sees more than 2,000 patients
- Living donor kidney
- Kidney transplant
- Liver transplant
- Pancreas transplant
- Vascular access
- Deceased donor

## Accomplishments in Clinical Care

- Both the **Auto-Islet Transplantation Program** and the **Allo-Islet Transplantation Program** continue to be areas of clinical focus within the Division.

Auto-islet transplant serves as an innovative treatment modality for pancreatitis. The patient's pancreas is removed and processed to isolate the islets. The cells are then returned to the operating room, and infused into the patient's liver, where they graft and mimic the function of the removed pancreas, preserving the patient's ability to secrete insulin. Using the patient's own islet cells eliminates any threat of rejection and substantially reduces the risk of the patient developing diabetes.

Allo-islet transplantation allows diabetic patients to receive the islets from the pancreas of a deceased donor, as the patient's own islets have ceased to function. Subsequent to a successful allo-islet transplantation, the patient is cured of diabetes and no longer has to rely on receiving insulin.

Both of these transplant processes are highly specialized, and are only offered by a few transplant centers. Ohio State is one of a few prestigious centers certified to offer these types of transplants.

- **Pediatric Transplant Program.** As Director of Pediatric Transplantation, Dr. Rajab continues to enhance the transplant program at Nationwide Children's Hospital. Nine kidney transplants were performed during the past year. In addition, utilizing the expertise gained over the many years of the Ohio State program, Dr. Rajab has implemented successful immunosuppressive regimens in his pediatric patients.
- **Living Donor Kidney Transplant Program.** This year, a dedicated effort by the pre-transplant coordinators, the transplant surgeons, and the nephrologists resulted in 104 living donor kidney transplants.
- **Sequential Pancreas Transplant Program.** Continued efforts to focus on a sequential pancreas transplant program resulted in six of these transplants being performed this year, benefiting the large population of patients who, suffering from end-stage renal disease secondary to diabetes, have already undergone a successful kidney transplant. In addition, twenty combined kidney-pancreas transplants were performed this year, allowing the recipients to be cured of both diseases by a single transplant procedure.

## Clinical Statistics

OR Procedures	951
Outpatient Visits	6,464
Admissions	754
Patient Days	5,294
Average Length of Stay (Days)	7.02

## Educational Programs

- Two-year fellowship in solid organ transplantation. The program is accredited by the American Society of Transplant Surgeons.
- Rotations for general surgery residents during their intern and PGY-3 years.
- Rotation for surgery residents from the Mount Carmel Hospital System, Riverside Methodist Hospital, and Doctors Hospital. The rotation provides the clinical transplant experience required by the American Board of Surgery.
- Comprehensive Transplant Center Lecture Series. This bi-weekly lecture features broad-based clinical and basic science topics, presented by clinicians and researchers from Ohio State and other institutions.

- Biopsy Conference. The weekly conference reviews renal transplant biopsies and liver transplant biopsies, in conjunction with the pathologists and nephrology physicians.
- Divisional Morbidity and Mortality Conference.
- Observership Program. The one-month international visiting scholar appointment allows international medical students, graduates, and faculty who are not part of a formal training program at The Ohio State University Medical Center to observe faculty members, residents, or interns at Ohio State for a predetermined period of time. The goal is to introduce international visiting scholars to the fields of transplant surgery, patient care, research, and teaching.

## Accomplishments in Education

- The 2010 American Transplant Congress (ATC), was held during May 1-5, 2010, in San Diego, California. This joint meeting between the American Society of Transplant Surgeons (ASTS) and the American Society of Transplantation (AST) is the foremost educational event in the field of basic and clinical transplantation. At this year's meeting, as well as chairing plenary sessions and presenting orally, the combined efforts of the surgeons and Dr. Hadley resulted in twelve abstracts being accepted for the event.
- Further, at the ATC, Dr. Henry was selected President-Elect of the ASTS. The Society, with more than 1,600 members, is dedicated to fostering and advancing the practice and science of transplantation for the benefit of patients and the community. Members are primarily board-certified surgeons with advanced training in transplantation and a record of publication in peer-reviewed journals and books.
- Dr. Henry participated as a Faculty member at the Vascular Access Society of the Americas (VASA) Vascular Access for Hemodialysis XII Symposium, held May 12-14, 2010 in Las Vegas, Nevada. The program promoted excellence in the care of the patients who require hemodialysis – including placement of optimal access, maintenance and prolongation of access patency. At this meeting, Dr. Henry assumed the role of President of VASA, having served as President-Elect for the past year.
- Dr. Henry, Dr. Andreoni and Dr. Bumgardner all created learning modules for the Organ Procurement Unit in the National Transplant Surgery Fellowship curriculum, developed by the American Society of Transplant Surgeons. The Curriculum defines the key areas of knowledge necessary for mastery of the field of transplantation surgery and when complete, this ASTS Academic Universe will contain over 200 learning modules. The Curriculum is available to all residents, fellows and transplant professionals who are members of this prestigious society.

- Dr. Anas Alzuhaili joined the transplant team as the junior fellow in the ASTS-approved fellowship training program.
- Dr. Yusuf Gunay and Dr. Srinivas Samavedi both completed the two-year fellowship in abdominal organ transplantation.
- The division continues to distribute a CD-ROM for resident education that is continually updated with cutting-edge educational materials on transplantation.
- Progress continues on the video library for resident education. The division's attending faculty members believe that a complete video library in solid organ transplantation will be a valuable teaching tool for those interested in this specialized field.
- Dr. Ginny Bumgardner is a member of the admissions committees for the Medical Scientist Program (MSP), the M.D./Ph.D. dual degree program. She also serves on the MSP Steering Committee, which addresses MSP policies and administrative issues. Dr. Bumgardner is a faculty member for the Integrated Biomedical Sciences Graduate Program. The Ohio State Med Into Grad Program is co-directed by Dr. Bumgardner, and was awarded a four-year grant by the Howard Hughes Medical Institute.
- Dr. Bumgardner is the Associate Dean for Research Education & Graduate Studies in the College of Medicine. She participates as a member of the OSU Clinical and Translational Science (CCTS) Community of Research Education.
- Dr. Bumgardner is the Director of the COM's Masters of Medical Science Program.

## Community Outreach Programs

- **Liver Transplantation.** Dr. Ken Andreoni has instituted an outreach program, centering around lectures on the role of liver transplantation in end stage liver disease patients, especially those with hepatocellular cancer. This outreach effort is to increase awareness of Ohio State's liver transplant program as a treatment modality for these patients. Dr. Andreoni's lectures are helping to educate colleagues in the medical community to identify patients who are appropriate to be considered as candidates for transplantation. In addition, he is informing the referring physicians and patients on the processes involved in the national UNOS system for liver transplantation.
- **TransChart.** An Internet-based electronic medical record for post-transplant patients and healthcare professionals managing their care, TransChart facilitates better communication and patient outcomes. The use of Transchart by outlying nephrologists is increasing, as its browser-based application for reviewing medical records and charting directly into the record is invaluable in managing patient care.

## Accomplishments in Community Outreach

Faculty members in the division continue to occupy positions of importance within the community of transplantation professionals. The faculty members and their positions are:

### **Kenneth A. Andreoni, M.D.**

- Chair, Kidney Committee, United Network for Organ Sharing (UNOS).
- Member, Subcommittee on National Kidney Paired Donation, UNOS.
- Co-Chair, Subcommittee on Liver-Kidney Allocation, UNOS.
- Chair, Kidney Subcommittee reviewing SRTR Kidney Transplant Metrics, UNOS.
- Member, Public Policy Committee, American Society of Transplantation.
- Medical Advisory Board, Lifeline of Ohio Organ Procurement Agency.

### **Ginny L. Bumgardner, M.D., Ph.D.**

- Chair, American Society of Transplant Surgeons (ASTS) AdHoc Workforce Committee. This committee developed and distributed a survey to transplant surgeons of the ASTS to gather information about their demographics, educational and professional background, clinical activity, and professional productivity. The results of the survey have been submitted for publication.
- Co-Chair, ASTS Awards Committee, American Society of Transplant Surgeons. This committee develops award guidelines and develops new awards for consideration of funding by the ASTS Council. The ASTS Awards committee reviews ASTS research applications annually and awards approximately \$750,000 annually.
- Associate Editor, American Journal of Transplantation (AJT) Editorial Board. Dr. Bumgardner has been an Associate Editor for AJT since 2007. AJT has an impact factor of 6.843 which is the highest ranking of transplantation journals.
- Member, Graduate Research Education and Training (GREAT), a national organization which fosters the exchange of information and ideas among the faculty and administrative leaders of biomedical PhD, MD-PhD and postdoctoral programs. GREAT also sponsors annual conferences on issues of importance in research education.
- Member, NIH NIAID AIRTC, an NIH study section which reviews training grants and individual research fellowship and career development awards.
- Co-Chair OSU Clinical Center for Translational Science (CCTS) Research Education Resources and Special Programs committee. This committee has organized CCTS T1 workshop series designed to connect basic scientists and clinicians working in related areas with the intent of forging new research collaborations.

### **Elizabeth Ann Davies, M.D.**

- Chair, Education Committee, International Society for Organ Preservation.

### **Elmahdi A. Elkhammas, M.D.**

- Chair, Executive Committee; Deputy Editor, Libyan Journal of Medicine.
- Chair, Board of Directors, Ibnosina Medical Association.
- Member, Executive Committee on Health Reform in Libya.
- Board Member, African Center for the Prevention of Infectious Diseases, Tripoli, Libya.

**Gregg A. Hadley, Ph.D.**

- Member, Scientific Advisory Committee, Roche Organ Transplantation Research Foundation.
- Associate Editor, American Journal of Transplantation.
- Editorial Board, Transplantation.

**Mitchell L. Henry, M.D.**

- President-Elect, American Society of Transplant Surgeons (ASTS).
- Member, Executive Committee, American Society of Transplant Surgeons.
- Council Member, American Society of Transplant Surgeons.
- Secretary, Board of Directors, United Network for Organ Sharing.
- Member, Executive Committee, United Network for Organ Sharing.
- President, Vascular Access Society of the Americas.
- Senior Advisor, Vanguard Committee, ASTS.
- Medical Director, Lifeline of Ohio Organ Procurement Organization.

**Ronald P. Pelletier, M.D.**

- Assistant Medical Director, Lifeline of Ohio Organ Procurement Organization.
- Member, Board of Directors, National Kidney Foundation. The board works to prevent kidney and urinary tract diseases, improve the health and well-being of individuals and families affected by these diseases, and increase the availability of all organs for transplantation.

## Publications

**Andreoni KA.** A comprehensive risk quantification score for deceased donor kidneys: the kidney donor risk index. *Transplantation* 2009 Jul 27; 88(2):231-236.

**Andreoni KA.** Screening for portopulmonary hypertension with transthoracic echocardiography: complications for early mortality associated with liver transplantation. *Am J Respir Crit Care Med* 2009 Aug 15; 180 (4): 378-379.

**Andreoni KA.** Educating kidney transplant professionals and candidates may improve utilization, allocation efficiency and lifetime survival. *Am J Transplant* 2010 Apr; 10(4): 711-712.

**Andreoni KA.** The high-risk recipient: The Eighth Annual American Society of Transplant Surgeons' State-of-the-Art Winter Symposium, *Clin Transplant* 2010 Jan-Feb; 24(1): 23-28.

**Brodsky SV, Nadasdy GM, Pelletier RP, Satoskar A, Birmingham DJ, Hadley GA, Obeidat K, Nadasdy T.** Expression of the decay—accelerating factor (CD55) in renal transplants — a possible prediction marker of allograft survival. *Transplantation* 2009 Aug 27, 88 (4): 457-64.

**Elkhammas EA.** New product of ibnosina medical association IJMBS. *Ibnosina Journal of Medicine and Biomedical Sciences* Vol 2 (1) 2009: 1-2

**Hadley GA.** Murine renal transplantation procedure. *J Vis Exp* 2009 July 10; (29). Pii: 1150. diu: 10.3791/1150.

**Pelletier RP, Hadley GA, Adams P, Henry ML, Yu Z, Ferguson RM.** Even a single, remotely positive post-transplant alloantibody test correlates with increased chronic allograft nephropathy and graft loss after kidney transplantation. *Ibnosina Journal of Medicine and Biomedical Sciences* Vol 1 (1) 2009:1-2.

**Pelletier RP.** Detailed outcomes analyses are essential for optimizing kidney utilization strategies. *Am J Transplant* 2009 Dec; 9(12): 2653-2654.

**Rajab A.** An anti-CD103 immunotoxin promotes long-term survival of pancreatic islet allografts. *Am J Transplant* 2009 Sep; 9(9): 2012-2023.

## Chapters

**Elkhammas EA.** (Editorial) New product of Ibnosina Medical Association: IJMBS. *Ibnosina Journal of Medicine and Biomedical Sciences* 2 (1): 7, 2009.

## International Visiting Scholars (Observerships)

**Dr. Abdel-Rauof Akkari,** Libya, August-September, 2009.

**Dr. Mussarat Rafiq,** Pakistan, January-February, 2010.

**Dr. Anas J. Benmokhtar,** Libya, May-June, 2010.

## International Presentations

**Elkhammas EA.** Organizing a Department of Surgery, Tripoli Medical Center. Tripoli, Libya. November 21, 2009.

**Elkhammas EA.** The Libyan National Transplant Program: Current and Future. Libyan Health Reforms, Advisory Committee, Tripoli, Libya, February 2, 2010.

**Henry ML.** Long-term CNI maintenance from de novo—the clinical insights. 10<sup>th</sup> International Transplantation Symposium, Sorrento, Italy, March 15, 2010.



**Henry ML.** Long-term mTOR-inhibitor/CNI combination – how to do it. 10<sup>th</sup> International Transplantation Symposium, Sorrento, Italy, March 15, 2010.

**Henry, ML.** Venous Disease Debate Session: AV Access. 8<sup>th</sup> Annual Western Vascular Institute Symposium, Galway, Ireland, June 23-26, 2010.

## National Presentations

**Andreoni KA.** New Kidney Allocation Policy. UNOS Executive Committee Meeting, Chicago, Illinois, February 1, 2010.

**Andreoni, KA.** Discussions concerning concepts for the new national kidney allocation system Southwest Nephrology Conference, National Kidney Foundation, Phoenix, Arizona, February 19-21, 2010.

**Andreoni KA, McCullough KP, Wolfe RA, Leichtman AB.** Consequences of deceased-donor kidney allocation systems incorporating matching of recipient and graft lifespan. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Gaughan AB, Wang JJ, Anthony B, Pelletier RP, Brodsky S, Nadasdy T, Hadley GA.** Tracking Host CD4 T Cells Responding to Renal Allografts. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Gunay Y, Rajab A, Henry ML, Pelletier RP.** Decreased morbidity with laparoscopic hernia repair in kidney and kidney/pancreas transplant recipients. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Henry ML.** Moderator, Panel discussion on strategic planning. Vascular Access Society of the Americas (VASA) Officers and Board of Directors Retreat, Atlanta, Georgia, September 11, 2009.

**Henry ML.** “Dialysis catheters are bad news.” 35<sup>th</sup> Annual Vascular and Endovascular Issues, Techniques and Horizons (Veith Symposium): Hemodialysis access, access planning, dysfunctional fistulas and central venous catheters. New York, New York, November 18, 2009.

**Henry ML.** “Regulatory Environment.” ASTS 10th Annual State of the Art Winter Symposium, Fort Lauderdale, Florida, January 14, 2010.

**Henry ML.** “Surgeons, Christmas Lights and Cheerleaders.” ASTS 10th Annual State of the Art Winter Symposium, Fort Lauderdale, Florida, January 15, 2010.

**Henry ML.** Keynote Debate. ASTS 10th Annual State of the Art Winter Symposium, Fort Lauderdale, Florida, January 15, 2010.

**Henry ML.** Surgical Techniques (ARS) Case Presentations Panel. ASTS 10th Annual State of the Art Winter Symposium, Fort Lauderdale, Florida, January 15, 2010.

**Henry, ML.** Counselor, US Renal Transplantation Advisory Board meetings. Phoenix, Arizona, February 24, 2010, and Orlando, Florida, February 26, 2010.

**Henry, ML.** Chair of Session. United Network for Organ Sharing (UNOS) Spring Regional Meeting, Dayton, Ohio, April 9, 2010.

**Henry ML.** Do's and Don'ts of Fistula Creation. Vascular Access for Hemodialysis XII Symposium, Las Vegas, Nevada, May 14, 2010.

**Kozlowski T, Rubinas T, Nickleit V, Andreoni KA.** Reported inconsistencies in C4d patterns in liver allograft antibody mediated rejection can be due to detection techniques. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Kozlowski T, Schmitz J, Toledo A, Fuller E, True K, Detwiller R, Andreoni KA.** Unsuccessful desensitization using plasmapheresis-free protocol in sensitized live donor kidney recipients. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Pelletier RP, He X, Lu Z, Li CL, Rajab A, Lee MLT, Henry ML.** Potential shortcomings of the scientific registry of transplant recipients (SRTR) center-specific kidney transplant outcomes reporting. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Pelletier RP, Henry ML.** Higher C2 CSA levels within the first month after kidney transplantation correlates with better renal function and graft survival at five years. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Rajab A, Gunay Y, Pelletier RP, Elkhammas EA, Bumgardner GL, Andreoni KA, Henry ML.** The outcome of percutaneous nephrostomy drainage and ureteral stenting for treatment of urological complications after transplantation. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Rajab A, Samavedi S, Pelletier RP, Henry ML.** The impact of early Sirolimus use on the incidence of wound complications and lymphocele in renal transplantation. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Rajab A, Pelletier RP, Henry ML.** A long-term outcome of steroid-free, calcineurin inhibitor free maintenance immunosuppression based on Rapamune/myfortic in kidney transplantation: A prospective study. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Rees MA, Kopke JE, Pelletier RP, Segev DL, Fabrega AJ, Rogers J, Pankewycz OG, Roth AE, Taber TE, Unver MU, Nibhanupudy B, Leichtman AB, Van Buren CT, Young CJ, Montgomery RA.** Six Non-Simultaneous Extended Altruistic Donor (NEAD) Chains. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Rees MA, Kopke JE, Smith C, Rees SE, Reece LJ, Pelletier RP, Rogers J, Pankewycz OG, Taber TE, Nibhanupudy B, Leichtman AB, Chan L, Melton LB, Young CJ.** Report from an 80-Transplant Center Multi-Regional Kidney Paired Donation Program. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Samir P, Gunay Y, Samavedi S, Shah R, Von Visger J, Nori U, Rajab A, Pesavento T, Singh N.** Cardiac Stress Test as a Risk Stratification Tool for Early Post Kidney Transplant (Ktx) Cardiovascular (CV) Outcomes in Diabetic ESRD Patients. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Singh N, Gunay Y, Samavedi S, Samir P, Von Visger J, Nori U, Pesavento TE, Henry ML, Elkhammas EA.** Recurrence of IgA Nephropathy Post Kidney Transplantation in Steroid Free vs. Steroid Dependent Immunosuppression Protocol. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

**Singh N, Adams P, DiPaola N, Rearick A, Gunay Y, Hadley GA, Pelletier RP.** Solid Phase Testing Trumps Flow Cytometry Crossmatching In Renal Pretransplant Evaluations. The 2010 American Transplant Congress, San Diego, California, May 1-5, 2010.

## Miscellaneous Presentations

**Andreoni KA.** Care of the Post Transplant Patient. Genesis Healthcare System, Bethesda Hospital, Zanesville Ohio, February 24, 2010.

**Davies EA.** Organ Donor Management. Nationwide Children's Hospital, Columbus, Ohio, October 27, 2009.

**Henry ML.** Clinical value of hemodialysis access imaging. OSU Heart and Vascular Center, Second Annual Vascular Noninvasive Testing Symposium, Columbus, Ohio, October 3, 2009.

**Rajab A.** Working together to achieve the best outcomes for kidney donors and recipients. Anesthesiology Grand Rounds, The Ohio State University, Columbus, Ohio, September 10, 2009.

**Rajab A.** Improving islet cell transplant survival through gene transfer. Nationwide Children's Hospital, Columbus, Ohio, October 5, 2009.

**Rajab A.** How to evaluate a deceased donor. Lifeline of Ohio Organ Procurement, Columbus, Ohio, October 7, 2009.

**Rajab A.** Chronic Pancreatitis and Islet Auto Transplantation. GI Grand Rounds, The Ohio State University, Columbus, Ohio, October 29, 2009.

**Rajab A.** Pancreas Transplantation. Transplant Nurses at The Ohio State University, Columbus, Ohio, November 18, 2009.

**Rajab A.** Finding the right donor for a kidney transplant recipient. Urology Rounds, The Ohio State University Medical Center, Columbus, Ohio, January 26, 2010.

**Rajab A.** Islet Cell Transplantation. Lifeline of Ohio Organ Procurement, Columbus, Ohio, February 22, 2010.

## Distinguished Visiting Professors

**Richard N. Whitney, M.D.**

Medical Director, Addiction Services Shepherd Hill Newark, Ohio Comprehensive Transplant Center Conference: “Appropriate use of medications in recovery”, December 9, 2009.

**Thalachallour Mohanakumar, Ph.D.**

Jacqueline G. and William E. Maritz Professor of Surgery, Medical Director of the Histocompatibility Laboratory, Washington University, St. Louis School of Medicine, St. Louis, Missouri. Comprehensive Transplant Center Conference: “Alloimmunity mediated autoimmunity in pathogenesis of chronic rejection”, December 16, 2009.

**Thalachallour Mohanakumar, Ph.D.**

Jacqueline G. and William E. Maritz Professor of Surgery, Medical Director of the Histocompatibility Laboratory, Washington University, St. Louis School of Medicine, St. Louis, Missouri. Charles G. Orosz Memorial Lecture 2010: “Cross talk between alloimmune response to HLA and autoimmunity in pathogenesis of chronic rejection”, April 14, 2010.

**Randall S. Sung, M.D.**

Associate Professor of Surgery, Surgical Director, Kidney and Pancreas Transplantation, University of Michigan Health Systems, Ann Arbor, Michigan. Comprehensive Transplant Center Conference: “The spectrum of donor risk in kidney and pancreas transplantation”, April 28, 2010.

# Vascular Diseases and Surgery



**Patrick S. Vaccaro, M.D.**

Chief, Division of Vascular Diseases and Surgery

**T**he Division of Vascular Diseases and Surgery has continued to maintain a high clinical volume while achieving excellence in patient satisfaction. Simultaneously under the direction of Dr. Cameron Rink and Dr. Michael Go, the division's research efforts have continued to expand. Overall there remains a very high resident and medical student satisfaction regarding the teaching provided on this service.

Dr. Jean Starr was recently designated Associate Program Director for the fellowship program in the Division of Vascular Diseases and Surgery. She has also committed herself to the MedPath Mentoring program in the College of Medicine and has also recently been appointed to the Admissions Committee in the College of Medicine as well.

Dr. William Smead and Dr. Blair Vermilion continue to expand the care of patients with venous disease at our Vein Solutions office. Dr. Vermilion continues to expand his involvement in hospital administration while Dr. Smead continues to maintain an active arterial practice in addition to his venous efforts. Both remain effective teachers and continue to receive excellent evaluations by both the residents and the medical students.

Dr. Das has increased the division's involvement in the care of dialysis patients largely through his efforts at the University Hospital East and continues to maintain an active arterial practice here at the Richard M. Ross Heart Hospital.

Dr. Satiani continues to conduct his practice management seminars as well as remain active in publications he was directly involved in 16 publications over the past year and produced another widely-attended invasive vascular symposium in the past fall.

Dr. Michael Go, working closely with Dr. Vince Pompili of the Division of Cardiology, has recently gained IRB approval for a prospective human trial investigating the use of autologous bone marrow-derived hematopoietic stem cells with platelet rich plasma to stimulate angiogenesis for the treatment of critical limb ischemia. To our knowledge, this is the first study of its kind in the U.S. to attempt to treat patients who otherwise would need amputation using stem cells combined with platelet-rich plasma. Platelet rich plasma is an autologous blood component that has been shown to stimulate angiogenesis in other applications such as wound healing and theoretically may augment the angiogenic activity of stem cell therapy. We hope to begin patient enrollment within two months. Also within the last academic year Dr. Go has had two peer-reviewed articles published in *Journal of Vascular Surgery*, a case report published in *Vascular and Endovascular Surgery*, and another report accepted for publication in *Vascular and Endovascular Surgery*. He was invited to speak at the Society for Vascular Medicine in Cleveland, Ohio and at the Pittsburgh Vascular Symposium, and he was most recently asked to speak at Controversies in Surgery in Ann Arbor, Michigan.

Dr. Cameron Rink's research focuses on mechanisms of stroke injury and brain repair more specifically, his interest lies in elucidating the specific role of oxygen as a key factor in stroke-mediated pathology. He has recently published in the *Journal of Cerebral Blood Flow and Metabolism* in February 2010.

Dr. Patrick Vaccaro continues his second year as Chief-of-Staff, Elect of The Ohio State University Medical Center and was most recently appointed by the Department of Surgery to be its representative on the OSUP Finance Committee starting in July 2010.

Dr. Siddharth Bhende completed his two year fellowship in vascular surgery this year and will be joining a private practice group in Mesa, Arizona. Dr. Maria Litzendorf will become the senior vascular fellow and Dr. Joseph Habib from Charleston Area Medical Center/West Virginia University will become the first year fellow starting in July. Dr. Bhende received the Fellow Teaching Award. Bestowed by the general surgery residents, this award recognizes a fellow who has demonstrated excellence in teaching.

## Faculty

### Patrick S. Vaccaro, M.D.

Professor of Clinical Surgery; Chief, Division of Vascular Diseases and Surgery; Program Director, Vascular Diseases and Surgery

**B.S.:** Yale University, New Haven, Ct., 1971

**M.D.:** University of Cincinnati, Cincinnati, Oh., 1975

**Specialty Training:** General surgery residency, The Ohio State University, Columbus, Oh.; clinical fellowship in cardiothoracic surgery, Baylor College of Medicine, Houston, Tx.

**Appointment:** 2004

**Specialty Interests:** General vascular surgery, endovascular therapy

**Research Interests:** Endothelial cell biology, spinal cord ischemia, clinical trials



Vaccaro

### B. Mohan Das, M.D.

Assistant Professor of Clinical Surgery

**B.A.:** Madras Christian College, Madras, India, 1967

**M.D.:** Stanley Medical College, Madras, India, 1974

**Specialty Training:** General surgery residency and vascular surgery fellowship, Albert Einstein Medical Center, Philadelphia, Pa.; vascular surgery fellowship, Cleveland Clinic, Cleveland, Oh.

**Appointment:** 2004

**Specialty Interests:** General vascular surgery, carotid disease, lower extremity and dialysis access surgery

**Research Interests:** Clinical trials, ARK "TRINAM STUDY" for dialysis access



Das

### Michael R. Go, M.D.

Assistant Professor of Surgery

**B.S.:** Duke University, Durham, N.C., 1996

**M.D.:** University of Cincinnati, Cincinnati, Oh., 2000

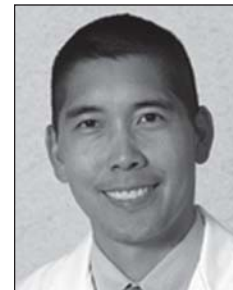
**M.S.:** The Ohio State University, Columbus, Oh., 2005

**Specialty Training:** General surgery residency, The Ohio State University, Columbus, Oh., 2006; Vascular and endovascular surgery fellowship, University of Pittsburgh Medical Center, Pittsburgh, Pa., 2008

**Appointment:** 2008

**Specialty Interests:** General vascular surgery, endovascular surgery

**Research Interests:** Endovascular surgery, stem cell therapy for limb ischemia



Go

**Bhagwan Satiani, M.D., M.B.A.**

Professor of Clinical Surgery; Director of Non-Invasive Vascular Services

**Undergraduate Degree:** Shah Abdul Latif College, Mirpurkhas, Pakistan, 1964

**M.D.:** Dow Medical College, University of Karachi, Karachi, Pakistan, 1971

**M.B.A.:** Franklin University, Columbus, Oh., 2002

**Specialty Training:** General surgery residency and trauma fellowship, Emory University, Atlanta, Ga.; vascular surgery fellowship, The Ohio State University Medical Center, Columbus, Oh.

**Appointment:** 2004

**Specialty Interests:** Noninvasive vascular diagnosis, business and legal aspects of medicine

**Research Interests:** Business education for physicians, workforce issues



*Satiani*

**William L. Smead, M.D.**

The Luther M. Keith Professor of Surgery

**B.A.:** Amherst College, Amherst, Ma., 1968

**M.D.:** Vanderbilt University, Nashville, Tn., 1972

**Specialty Training:** General surgery residency, Massachusetts General Hospital, Boston, Ma.; cardiothoracic surgery residency, Southampton Chest Hospital, Southampton, England

**Appointment:** 1978

**Specialty Interests:** General vascular surgery, aortic aneurysmal disease (thoracic and abdominal), renovascular hypertension, carotid disease, pediatric vascular problems

**Research Interests:** Claudication, carotid disease, thoracic outlet syndrome, aortic aneurysmal disease



*Smead*

**Jean E. Starr, M.D.**

Assistant Professor of Clinical Surgery; Director of Endovascular Services

**B.S.:** The Ohio State University, Columbus, Oh., 1985

**M.D.:** The Ohio State University, Columbus, Oh., 1989

**Specialty Training:** General surgery residency and vascular surgery fellowship, Cleveland Clinic, Cleveland, Oh.

**Appointment:** 2004

**Specialty Interests:** Endovascular surgery, interventional procedures, carotid stents

**Research Interests:** Endovascular aortic aneurysm repair, carotid stenting



*Starr*



**Blair D. Vermilion, M.D.**

Associate Professor of Clinical Surgery

**B.S.:** Miami University, Oxford, Oh., 1968**M.D.:** The Ohio State University, Columbus, Oh., 1972**Specialty Training:** General surgery residency, Indiana University, Indianapolis, In.; vascular surgery fellowship, St. Anthony Hospital, Columbus, Oh.**Appointment:** 2004**Specialty Interests:** General vascular surgery, venous disease**Research Interests:** Clinical trials

Vermilion

## New Faculty Appointment

**Cameron L. Rink, Ph.D.**

Assistant Professor of Surgery

**B.S.:** Hillsdale College, Hillsdale, Mi., 2000**Ph.D.:** The Ohio State University, Columbus, Oh., 2008**Post-doctoral Research,** Laboratory of Molecular Medicine, The Ohio State University, 2009**Graduate Fellow,** Department of Surgery, The Ohio State University, 2008**Graduate Research Assistant,** Laboratory of Molecular Medicine, The Ohio State University, 2006**Graduate Fellow,** Human Nutrition, The Ohio State University, 2005**Appointment:** 2009**Research Interest:** stroke injury, brain repair and oxygen as a key factor in stroke-mediated pathology

Rink

## Resident Staff

**Siddharth Bhende, M.D.**

PGY-7

**B.S.:** University of California at Riverside, Riverside, Ca., 1999**M.D.:** Ross University, Dominica, West Indies, 2003**Maria Litzendorf, M.D.**

PGY-6

**B.S.:** College of William and Mary, Williamsburg, Va., 1996**M.D.:** Eastern Virginia Medical School, Norfolk, Va., 2003

## Mission

The mission of the Division of Vascular Diseases & Surgery is consistent with that of The Ohio State University College of Medicine and Public Health, and includes: 1) the delivery of the highest quality of care to patients throughout Central Ohio suffering with peripheral vascular disease, 2) the contribution to innovations in medicine through translational research and clinical outcomes studies, and 3) the education of medical students and postgraduate trainees. Strategic planning has been a priority for us as we have focused on identifying how we can best fulfill our mission and truly create the future of medicine to improve people's lives. A key element of that focus is our commitment to leadership in personalized health care as well as to help become a high-performance organization and workplace of choice.

## Active Research Grants

**Starr JE, Das BM, Vaccaro PS, Vermilion BD.** The PIVOTAL study: positive impact of endovascular options for treating aneurysms early. Cleveland Clinic Foundation, June 1, 2005 – May 31, 2010, \$11,150.

**Starr JE, Farhan NJ, Wexler R.** CVRx Rheos pivotal trial. CVRx, Inc., November 12, 2007 – September 1, 2010, \$81,787.

**Starr JE, Vaccaro PS.** Carotid stenting for high surgical-risk patients: evaluating outcomes through the collection of clinical evidence (CHOICE). Abbott Laboratories, April 26, 2007 – February 27, 2010, \$500.

**Starr JE, Vaccaro PS.** SONOMA: The NexStent Carotid Stent System: a post-market approval evaluation study in conjunction with the FilterWire EZ Embolic Protection System. Boston Scientific Corp., August 17, 2007 – August 16, 2011, \$75.

**Starr JE, Vaccaro PS.** Stenting and angioplasty with protection in patients at high risk for endarterectomy (SAPPHIRE WW). Cordis Corp., May 2, 2007 – December 31, 2014, \$5,400.

**Starr J, Wexler R.** CVRx Rheos pivotal trial. CVRx, Inc., November 12, 2007 – September 1, 2010, \$70,008.

**Vaccaro PS, Smead WL, Starr JE.** A phase 2 clinical study of the safety and efficacy of the relay thoracic stent graft in patients with thoracic aortic pathologies. Bolton Medical, Inc., August 15, 2007 – August 31, 2012, \$2,000.

**Vaccaro P, Smead WL, Starr J.** Zenith TX2 thoracic TAA endovascular graft clinical study. Cook, Inc., February 18, 2005 – February 17, 2010, \$2,700.

**Vaccaro PS, Starr JE.** RNA expression profiling of lesions for *in vivo* carotid atherectomies (REPLICA): a carotid plaque observational study. FoxHollow Technologies, June 17, 2008 – November 30, 2009, \$1,040.

## Accomplishments in Research

- Faculty in the division published 12 scholarly articles.
- IRB approval for a prospective human trial investigating the use of autologous bone marrow derived hematopoietic stem cells with platelet rich plasma to stimulate angiogenesis for the treatment of critical limb ischemia. To our knowledge, this is the first study of its kind in the U.S. to attempt to treat patients who otherwise would need amputation using stem cells combined with platelet-rich plasma.
- OSPREY – sponsored by Terumo is coming but is not totally approved by the FDA yet so we are on hold with that application.
- Bolton Relay-initial enrollment is now complete for endovascular arm of the original study plan but we were invited to participate in the continued access portion of the Bolton Relay Trial (Protocol Version I) which will allow 50 additional subjects to be treated with the Relay Thoracic Stent Graft at up to 20 of the investigative sites participating in the trial.
- CVRx Rheos Pivotal – Enrollment is complete and we are now in the follow up phase of the trial. Subjects enrolled in the trial will be followed through FDA approval/disapproval of the device.
- We are currently the third top enroller in the Boston Scientific study called ORION: A Boston Scientific trial of the EPIC Nitinol Stent System in the Treatment of Atherosclerotic Lesions in Iliac Arteries.
- The study, HERCULES- Herculink Elite Cobalt Chromium Renal Stent Trial to Demonstrate Efficacy and Safety of the RX Herculink Renal Stent System, sponsored by Abbott Vascular, is closed to enrollment and in the follow up phase of the trial for the next 3 years.
- CHOICE, sponsored by Abbott Vascular, is a carotid stent registry in which we continue to enroll patients. The enrollment for this registry is open ended.
- SAPPHIRE WW, sponsored by Cordis, is a carotid stent registry in which we also currently enroll patients.
- The following studies have been closed this past year: SONOMA – Boston Scientific; PIVOTAL – Medtronic and Cleveland Clinic Foundation.

## Clinical Programs

- Comprehensive general vascular diseases and surgery service.
- Endovascular surgery.
- Laser surgery for varicose veins.
- Arterial surgery clinic.
- Venous surgery clinic.
- Varicose vein clinic.
- Dialysis clinic.
- Outlying vascular clinics in Ashland, Bellefontaine, Fayette, Lancaster, London, Marysville, and Upper Sandusky, Oh.

## Accomplishments in Clinical Care

- Offering of outpatient clinic varicose vein treatment instead of hospital-based treatment.
- Listing of Dr. William L. Smead by *Best Doctors, Inc.*
- Continuation of a high patient satisfaction score. As of February 2010, the overall assessment total was 92.5 percent.
- Use of the Guidant stent system in treatment of blockages in the carotid artery.
- Use of the Rheos Baroflex Hypertension therapy system for treatment to control resistant hypertension.
- Use of Cordis Precise RX and Emboshield carotid stent system.
- Bolton Relay Thoracic Endograft.
- TX2 Thoracic Endograft.
- EPIC Nitinol stent for treatment of iliac artery blockages.

## Clinical Statistics

OR Procedures	1,673
Outpatient Visits	2,897
Admissions	827
Patient Days	3,208
Average Length of Stay (Days)	3.88

## Educational Programs

- Two-year fellowship in vascular diseases and surgery, accredited in 2006 by the Accreditation Council for Graduate Medical Education.
- Seminar in Practice Management. Dr. Bhagwan Satiani presents this monthly seminar to the residents in the Department of Surgery.
- Comprehensive rotation in vascular diseases and surgery for junior and senior general surgery residents.
- Subinternship in vascular diseases and surgery.
- Medtronic Thoracic Simulator at The Ross Heart Hospital.

## Accomplishments in Education

- The division's Grand Rounds was approved for Category 1 continuing medical education credit toward the American Medical Association Physicians Recognition Award.
- Dr. Siddharth Bhende assisted the Richard M. Ross Heart Hospital with the College of Nursing on some simulation exercises (scenario involves a patient who has had AAA repair) Columbus, Ohio, August 6, 10, 11, & 25, 2009; the UCLA Symposium, Hollywood, CA., September 14- 17, 2009; the Society for Clinical Vascular Surgery Meeting, Scottsdale, AZ., April 7-10, 2010.
- Dr. B. Mohan Das attended the 23<sup>rd</sup> Annual Midwestern Vascular Surgical Meeting in Chicago, IL., September 10-11, 2009; the PAREXEL ARK Trinam Training (research) in Raleigh, NC., October 30, 2009; the Registered Physician in Vascular Interpretation Exam Review Course, Baltimore, MD., March 4- 7, 2010; the Dialysis Access Symposium, Houston, Texas, March 12-14, 2010.

- Diane Gawron, RN attended Osprey Investigator Meeting, Orlando FL., March 19, 2010.
- Dr. Michael Go attended the CIMT (Carotid Intima-Media Thickness) Ultrasound Training Course in Madison, WI., August 7-8, 2009; the 8<sup>th</sup> Annual Pittsburgh Vascular Symposium in Pittsburgh, PA, September 11, 2009; the Osprey Investigator Meeting, Orlando, FL., March 19-21, 2010.
- Dennis Kiser, RVT and Dr. Bhagwan Satiani received the Member First Time Presenter award at the Society for Vascular Ultrasound Annual Conference, Boston MA., June 11, 2010.
- Dr. Maria Litzendorf assisted the Richard M. Ross Heart Hospital with the College of Nursing on some simulation exercises(scenario involves a patient who has had AAA repair) Columbus, Ohio, August 6, 10, 11, & 25, 2009; the Annual Fellow course in Venous Disease, Houston, TX., September 20 – 22, 2009; the Society for Vascular Surgery Women's Leadership Retreat in Newport, RI., October 22- 24, 2009; the Society for Clinical Vascular Surgery Meeting, Scottsdale, AZ., April 7-10, 2010; the Medtronic Technology Exchange Meeting, Minneapolis, MN., May 14-16, 2010.
- Dr. Cameron Rink attended the Oxygen Club of California World Congress meeting, Santa Barbara, CA., March 16-21, 2009; the Society for Neuroscience 2009 annual meeting, Chicago, IL., October 19-21, 2009.
- Dawn Sagle attended the Association of Program Directors in Vascular Surgery meeting in Chicago, IL., April 16-17, 2010.
- Dr. Bhagwan Satiani attended the CIMT (Carotid Intima-Media Thickness) Ultrasound Training Course in Madison, WI., August 7-8, 2009; the AAMC Physician Workforce Research Conference Meeting, Alexandria, VA., May 5-7, 2010; the 2010 Society for Vascular Surgery Annual Meeting in Boston, MA June 8-June 12, 2010; South Asian American Vascular Society Meeting in Boston, MA June 8, 2010 and Society for Vascular Ultrasound Conference, Boston, MA June 11, 2010.
- Dr. William Smead attended the Annual Vein Solutions National Meeting in Chicago, IL., April 23-24, 2010; the Eastern Surgical Meeting, Nashville, TN., April 29-May 2, 2010.
- Dr. Jean Starr attended the 23<sup>rd</sup> Annual Midwestern Vascular Surgical Meeting in Chicago, IL., September 10-11, 2009; the RPVI Exam Review Course in Atlanta, GA., September 25-27, 2009; the Medtronic Fellow Technology Exchange Meeting in Minneapolis, MN., October 2- 4, 2009; the Society for Vascular Surgery Women's Leadership Retreat in Newport, RI., October 22-24, 2009; the Boston Scientific 2010 Medical Advisory Board Meeting, Salt Lake City, Utah, February 10-13, 2010; Medtronic Technology Exchange Meeting, Minneapolis, MN., May 14-16, 2010.

- Dr. Patrick S. Vaccaro attended the 23<sup>rd</sup> Annual Midwestern Vascular Surgical Meeting in Chicago, IL., September 10-11, 2009; the RPVI Exam Review Course in Atlanta, GA, September 25-27, 2009; the Osler Course “General Surgery Review” in Chicago, IL., October 15-18, 2009; The London Cardiovascular Symposium, The Royal Society of Medicine, Moderator, London England, October 29-31, 2009; the Medical Executive Committee Institute, Naples, FL., November 5-6, 2009; the Association of Program Directors in Vascular Surgery meeting in Chicago, IL., April 16-17, 2010; the Ohio Chapter, American College Surgeons Council Meeting, Columbus, Ohio, May 7-8, 2010; the 2010 Society for Vascular Surgery Annual Meeting in Boston, MA June 8-June 12, 2010.
- Dr. Blair Vermilion attended the Registered Physician in Vascular Interpretation Exam Review Course, Baltimore, MD., March 4- 7, 2010; the Vein Solutions National Meeting in Chicago, IL., April 23-24, 2010.

## Community Outreach Programs

- Presentation of regular lectures on vascular diseases to Central Ohio hospitals, College of Medicine, Department of Surgery, hospital board meeting, medical staff meetings, Grand Rounds, M&M, medical society meetings, and the division’s Vascular Symposium and Endovascular Club meetings.

## Accomplishments in Community Outreach

- Dr. Michael Go was elected a member into the Society for Vascular Surgery.
- Dr. Bhagwan Satiani was co-director, planner and moderator of the 2<sup>nd</sup> Annual Non-Invasive Vascular Symposium, at The Ohio State University Medical Center, Columbus, Ohio, October 3, 2009; elected secretary of the Board of ASHA – Ray of Hope; elected on the editorial board for the International Journal of Vascular Medicine; elected to the Clinical Practice Council for the Society for Vascular Surgery and elected President-elect for the South Asian American Vascular Society (SAAVS).
- Dr. William Smead conducted examinations at the American Board of Surgery/Vascular Surgery Board Exam in Dallas, Texas, May 16-19, 2010.

- Dr. Jean Starr was named Associate Program Director for the Division of Vascular Diseases & Surgery; participating with the Medpath Mentoring program; served as journal reviewer for Archives of Surgery; member of the College of Medicine/Medical School Admission Committee (interview two student monthly); mentored Med I students in Learning Community; Past President of the Columbus Surgical Society; consultant for HOPES (Vascular Abbott) College of Public Health/review economic evaluations Jan 2010. HOPES mission is to provide community services that respond to the social, educational and training needs of its residents in an effort to overcome barriers and fight the causes of poverty.
- Dr. Patrick Vaccaro conducted fellowship interviews for the American College of Surgeons Ohio District #3 Committee on Applicants, May 8, 2010.
- Dr. Blair Vermilion was elected a member of the American Institute for Healthcare Quality.

## Publications

**Go MR.** Future shortage of vascular surgeons expected. *Cardiology Today* 2009;31.

**Manley R. Satiani BS.** Revenue cycle management. *J Vasc Surg* 2009;50:1232-1238.

**Satiani A. Satiani BS.** Marketing strategies for vascular practitioners. *J Vasc Surg* 2009;50(3):691-697.

**Satiani BS.** A medicare primer. *J Vasc Surg* 2009;50(2):453-460.

**Satiani BS.** Fill in the blanks. *MGMA Connexion* 2009;36-38.

**Satiani BS.** US facing possible shortage of surgeons. *Mt. Vernon News*, September 8, 2009.

**Satiani BS.** The employer-sponsored health insurance benefit: what the physician should know. *Gen Surg News Opinions & Letters* 2009;36(10):51-53.

**Satiani BS.** Health-care column used flawed report. *The Columbus Dispatch*, November 10, 2009.

**Satiani BS.** Invited commentary. *J Vasc Surg* 2009;1078.

**Satiani BS.** Compensation differences between pcps and specialists. *SVS Vasc Specialists: Online Edition*/April 2010/www.vascularweb.org page 6-7.

**Satiani BS. Beavers FP.** Diversity in vascular surgery: adapting to America's new face. *J Vasc Surg* 2010;51:Issue 4.



**Satiani BS. Beavers FP.** Diversity does not equal disparity: how cultural competence can overcome. *J Vasc Surg* 2010;51:1S-3S.

**Satiani BS. Freudeman D.** Is medical office real estate investment for you? *Gen Surg News*, April 2010, Issue 37:04.

**Satiani BS. Vaccaro PS.** A critical appraisal of physician-hospital integration models. *J Vasc Surg* 2010;51:1046-53.

**Satiani BS. Vaccaro PS. Go MR.** Diversity in membership and leadership positions in a regional vascular society. *J Vasc Surg* 2010;51:47S-52S.

**Satiani BS. Williams TE. Go MR.** Predicted shortage of vascular surgeons in the United States: population and workload analysis. *J Vasc Surg* 2009;50(4):946-952.

**Starr JE. Walker GW. Vaccaro PS.** Endograft infection presenting as a ruptured aortic Aneurysm. *Ann Vasc Surg* 2009;23(6):787.e7-9.

**Starr JE.** On the horizon: what's coming next for lower extremity interventions. *Perspectives in Vascular Surgery and Endovascular Therapy* 2009;21(4):218-220.

**Vaccaro PS. Smead WL.** A "tight squeeze" thoracic outlet syndrome. *Updates in Cardiovascular Medicine & Surgery* 2009;6(2):7.

**Williams TE. Satiani BS. Ellison CE.** The impending shortage and the estimated cost of training the future surgical workforce. *Annals of Surgery* 2009;250:590-597.

## Books

**William TE. Satiani BS. Ellison EC.** *The coming shortage of surgeons: why they are disappearing and what that means for our health.* Published by Praeger Publishers, September 30, 2009.

## Distinguished Visitors

**George Berdejo, BA, RVT, FSVU.** Director, Vascular Ultrasound Services, Montefiore Medical Center Vascular Lab, Bronx, NY. Preoperative arterial duplex imaging. Lower limb graft and stent surveillance. The Ohio State University Medical Center, 2nd Annual Non-Invasive Vascular Symposium, Columbus, Ohio, October 3, 2009.

**Joseph Coselli, MD.,** Professor of Surgery, Chief, Division of Cardiothoracic Surgery, Director, Thoracic Surgery Residency Program at Baylor College of Medicine in Houston, Texas spoke at our Mid Ohio Endovascular Club meeting on “Hybrid Aortic Repair: Combining Open and Endovascular Approaches to Complex Repair”, Worthington, Ohio on February 24, 2010.

**Patricia Poe, BA, RVT, RDCS, FSVU.** Director, Non Invasive Vascular Laboratory, Division of Vascular Surgery, University of Cincinnati, Cincinnati, Ohio. Technical aspects of hemodialysis access testing. Technical pitfalls in renal duplex. The Ohio State University Medical Center, 2nd Annual Non-Invasive Vascular Symposium, Columbus, Ohio, October 3, 2009.

**John Rundback, M.D.,** Managing Partner at Advanced Interventional Radiology Services LLP, Director, Interventional Institute at Holy Name Hospital in Teaneck, New Jersey and Adjunct Associate Professor of Clinical Radiology at College of Physicians and Surgeons of Columbia University in New York, New York spoke at our Mid Ohio Endovascular Club meeting on “Renal Artery Management”, Columbus, Ohio on October 8, 2009.

**Michael Schwebler, MBA, RVT, FSVU.** Chief Operating Officer, Midwest Ultrasound, Inc., Cincinnati, Ohio. Changes in reimbursement for imaging. Sonographer and physician credentialing update. The Ohio State University Medical Center, 2nd Annual Non-Invasive Vascular Symposium, Columbus, Ohio, October 3, 2009.

## Interdisciplinary Lectures

**Michael Andritsos, MD.,** Section Director, Cardiothoracic and Vascular Anesthesiology, The Ohio State University Medical Center, spoke at the Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, topic “Pain Management in Vascular Surgery” on October 26, 2009.

**Spero Cataland, MD.,** Associate Professor – Clinical, Hematology and Oncology Department, The Ohio State University Medical Center, spoke at the Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, topic “Disorders of hemostasis” on June 14, 2010.

**Steven Dean, DO, FACC, RPVI.** Director, StoneRidge Cardiology Peripheral Vascular Laboratory & Program Director, Vascular Medicine; Associate Professor of Internal Medicine, The Ohio State University Medical Center, Columbus, Ohio. Interesting cases: testing your knowledge. The Ohio State University Medical Center, 2nd Annual Non-Invasive Vascular Symposium, Columbus, Ohio, October 3, 2009.

**Mitchell L. Henry, MD**, Division Director, Transplant Surgery; Deputy Director for Surgical Services, Comprehensive Transplantation Center; Associate Medical Director, Lifeline of Ohio Organ Procurement Agency, The Ohio State University Medical Center, Department of Surgery, Division of Transplant, Columbus, Ohio. Clinical value of hemodialysis access imaging. The Ohio State University Medical Center, 2nd Annual Non-Invasive Vascular Symposium, Columbus, Ohio, October 3, 2009.

**Steve Marsh, MS, DABMP**, Department of Radiology, The Ohio State University Medical Center, spoke at the Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, topic "Radiation Safety" on May 10, 2010.

**Sanjay Rajagopalan, MD**, Section Director, Vascular Medicine; Co-Director, Cardiovascular MR/CT Program; Associate Director, Vascular Research, The Ohio State University Medical Center, spoke at the Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, topic "Imaging of Complex Vascular Diseases" on December 28, 2009.

**Irina Shankovich, MD**, Clinical House-staff, Department of Surgery, The Ohio State University Medical Center, College of Medicine, Columbus, Ohio. Quality statistics in the vascular lab. The Ohio State University Medical Center, 2nd Annual Non-Invasive Vascular Symposium, Columbus, Ohio, October 3, 2009.

**Steven Dean, DO, FACC, RPVI**, Director, Stoneridge Cardiology Peripheral Vascular Laboratory & Program Director, Vascular Medicine; Associate Professor of Internal Medicine, The Ohio State University Medical Center, Columbus, Ohio. Interesting cases: testing your knowledge. The Ohio State University Medical Center, 2nd Annual Non-Invasive Vascular Symposium, Columbus, Ohio, October 3, 2009.

## International Presentations

**Vaccaro PS**. Moderator of the acute dissection session of The London Cardiovascular Symposium, The Royal Society of Medicine, London England, October 29-31, 2009.

## National Presentations

**Go MR**. Late complications of EVAR. 8th Annual Pittsburgh Vascular Symposium, Pittsburgh PA., September 11, 2009.

**Kiser D., Satiani BS**. Timeliness in notification of critical vascular laboratory test results is part of quality assurance. Society for Vascular Ultrasound Conference, Boston MA., June 11, 2010.

**Satiani BS.** Williams TE, Ellison EC, Souba WW, Gabbe SG. Another 30 million people: a crisis of access? Poster presentation at the Sixth Annual AAMC Physician Workforce Research Conference, Alexandria, VA., May 6-7, 2010.

**Satiani BS.** Diversity in vascular surgery. First meeting of the South Asian American Vascular Society, Boston MA., June 9, 2010.

**Satiani BS.** Real estate part of the deal: ownership and other options. 2010 Annual meeting Society for Vascular Surgery, Boston MA., June 10, 2010.

**Satiani BS.** Co-moderator, Breakfast Session – Setting up an outpatient endovascular center. 2010 Annual meeting Society for Vascular Surgery, Boston MA., June 10, 2010.

**Starr JE.** On the horizon: what's coming next for lower extremity interventions? 23rd Annual Midwestern Vascular Surgical Society Meeting, Chicago, IL., September 10, 2009.

**Starr JE.** Tibial intervention. 23rd Annual Midwestern Vascular Surgical Society Meeting, Chicago, IL., September 10, 2009.

**Starr JE.** Percutaneous arterial closure devise. Medtronic Fellow Technology Exchange, Minneapolis, Minnesota, October 3, 2009.

Williams TE, **Satiani BS.** Ellison EC, Souba WW, Gabbe SG. The impending surgical threat to the rural hospitals. Poster presentation at the Sixth Annual AAMC Physician Workforce Research Conference, Alexandria, VA., May 6-7, 2010.

## Miscellaneous Presentations

**Bhende SK.** Response of the arterial wall to injury & intimal hyperplasia. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, July 17, 2009.

**Bhende SK.** Venous and lymphatic systems of legs: structure and function. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, November 9, 2009.

**Das BM.** Peripheral arterial disease. The Ohio State University Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, August 8, 2009.

**Das BM.** Venous disease, pulmonary embolism, and lymphatic system. The Ohio State University Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, August 8, 2009.

**Das BM.** Amputation. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, October 2, 2009.

**Das BM.** Vascular bypasses. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth Floor In-service, Columbus, Ohio, March 10, 2010.

**Das BM.** Peripheral vascular disease management. The Ohio State University Medical Center, Senior Elective Course in Therapeutics, Columbus, Ohio, March 24, 2010.

**Go MR.** Non-arteriosclerotic diseases of the aorta and arteries. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, September 18, 2009.

**Go MR.** Value of IMT measurement. The Ohio State University Medical Center, 2nd Annual Non-Invasive Vascular Symposium, Columbus, Ohio, October 3, 2009.

**Go MR.** Surveillance of stented/angioplastied carotid arteries. The Ohio State University Medical Center, 2nd Annual Non-Invasive Vascular Symposium, Columbus, Ohio, October 3, 2009.

**Go MR.** Endovascular surgery for critical limb ischemia. The Richard M. Ross Heart Hospital, Heart of it All Conference, Columbus, Ohio, November 2, 2009.

**Go MR.** Peripheral arterial disease. The Ohio State University Medical Center, Department of Surgery, Clerkship Didactic Lecture, Columbus, Ohio, December 7, 2009.

**Go MR.** Venous disease, pulmonary embolism, and lymphatic system. The Ohio State Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, December 7, 2009.

**Go MR.** Vascular smooth muscle cells. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, January 11, 2010.

**Go MR.** Aorta and great vessels. The Ohio State University Medical Center, Department of Surgery, Professor Conference, Columbus, Ohio, February 18, 2010.

**Go MR.** Arterial disease. The Ohio State University Medical Center, Department of Surgery, Basic Science Lecture, Columbus, Ohio, February 25, 2010.

**Go MR.** Vascular anastomosis. The Ohio State University Medical Center, Cryolife Vascular Wetlabs, Resident Skills Session, Columbus, Ohio, March 16, 2010.

**Go MR.** Surgical and endovascular approaches to carotid artery revascularization. Society for Vascular Medicine, 2010 Comprehensive Vascular Review Course, Cleveland, Ohio April 30, 2010.

**Go MR.** Limb ischemia. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth Floor in-service, Columbus, Ohio, May 5, 2010.

**Go MR.** Statistic for the vascular surgeon. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, May 24, 2010.

**Litzendorf ME.** Macrophages and platelets. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, August 21, 2009.

**Litzendorf ME.** Blood rheology and the microcirculation. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Columbus, Ohio, April 26, 2010.

**Satiani BS.** Lab reading privileges for physicians. The Ohio State University Medical Center, 2nd Annual Non-Invasive Vascular Symposium, Columbus, Ohio, October 3, 2009.

**Satiani BS.** Carotid duplex part 2. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, October 26, 2009.

**Satiani BS.** After all, tomorrow is another day! An optimistic view for physicians. University of Tennessee, Grand Rounds, Knoxville, Tennessee, November 4, 2009.

**Satiani BS.** Surgeons owning the scalpel: physician ownership of health and infrastructure is good for the United States. The University of Michigan, Department of Surgery Debate, Ann Arbor, MI November 20, 2009.

**Satiani BS.** The impending shortage & estimated cost of training the future neurosurgical workforce, The Ohio State University Medical Center, OB-GYN Grand Rounds, Columbus, Ohio, January 7, 2010.

**Satiani BS.** Venous disease. The Ohio State University Medical Center, Department of Surgery, Professor Conference, Columbus, Ohio, January 14, 2010.

**Satiani BS.** Peripheral artery disease. The Ohio State University Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, February 15, 2010.

**Satiani BS.** Venous disease, pulmonary embolism, and lymphatic system. The Ohio State University Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, February 15, 2010.

**Satiani BS.** Visceral imaging. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, May 24, 2010.

**Smead WL.** Vascular complications. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, August 7, 2009.

**Smead WL.** Carotid artery disease. The Ohio State University Medical Center, MedNet 21 Live CME Webcast, Columbus, Ohio, February 26, 2010.

**Smead WL.** Peripheral artery disease. The Ohio State University Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, April 5, 2010.

**Smead WL.** Venous disease, pulmonary embolism, and lymphatic system. The Ohio State University Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, April 5, 2010.

**Smead, WL.** Sympathectomy. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, April 12, 2010.

**Starr JE.** Hemostasis, surgical bleeding & transfusion. The Ohio State University Medical Center, Department of Surgery, Basic Sciences Lecture, Columbus, Ohio, August 6, 2009.

**Starr JE.** Venous thromboembolic disease. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, September 4, 2009.

**Starr JE.** Innovations in endovascular therapy. The Ohio State University Medical Center, Anesthesiology Grand Rounds, Columbus, Ohio, September 24, 2009.

**Starr JE.** Peripheral arterial disease. The Ohio State University Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, October 26, 2009.

**Starr JE.** Venous disease, pulmonary embolism, and lymphatic system. The Ohio State University Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, October 26, 2009.

**Starr JE.** Carotid stenting. The Ohio State University Medical Center, Cardiology Grand Rounds, Columbus, Ohio, December 11, 2009.

**Starr JE.** Acute limb ischemia. The Ohio State University Medical Center, the Richard M. Ross Hospital, OR In-service, Columbus, Ohio, January 7, 2010.

**Starr JE.** Acute limb ischemia. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth Floor In-service, February 3, 2010.

**Starr JE.** Carotid artery disease. The Ohio State University Medical Center, MedNet 21 Live CME Webcast, Columbus, Ohio, February 26, 2010.

**Starr JE.** Disease of the thoracic aorta and aortic arch. Society for Vascular Medicine, 2010 Comprehensive Vascular Review Course, Cleveland, Ohio April 30, 2010.

**Starr JE.** Gender disparities in peripheral arterial disease. University of Vermont, Grand Rounds & Visiting Women in Surgery professorship, Burlington, VT., May 6, 2010.

**Vaccaro PS.** Portal hypertension. The Ohio State University Medical Center, Department of Surgery, Professor Conference, Columbus, Ohio, September 24, 2009.

**Vaccaro PS.** Thoracic outlet syndrome. Banner Good Samaritan Medical Center, Grand Rounds, Phoenix, Arizona, November 19, 2009.

**Vaccaro PS.** Diagnosis and management of miscellaneous vasculogenic problems. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Columbus, Ohio, April 26, 2010.

**Vaccaro PS.** Peripheral artery disease. The Ohio State University Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, June 7, 2010.

**Vaccaro PS.** Venous disease, pulmonary embolism and lymphatic system. The Ohio State University Medical Center, Department of Surgery, Med III Surgery Clerkship Didactic Lecture, Columbus, Ohio, June 7, 2010.

**Vermilion BD.** Lymphedema & chronic venous insufficiency. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, October 12, 2009.

**Vermilion BD.** An overview of medicine requirements for physicians. The Ohio State University Medical Center, Department of Surgery, Grand Rounds, Columbus, Ohio, December 3, 2009.

**Vermilion BD.** Peripheral vascular disease. The Ohio State University Medical Center, Department of Surgery, Professor Conference, Columbus, Ohio, March 4, 2010.

**Vermilion BD.** Medicare: level of care, documentation, and you. The Ohio State University Medical Center, Neurology Grand Rounds, Columbus, Ohio, May 18, 2010.

**Vermilion BD.** AAA: endovascular treatment. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth Floor In-service, Columbus, Ohio, June 2, 2010.

**Vermilion, BD.** Medicare: the new reality. The Ohio State University Medical Center, OB/GYN Grand Rounds, Columbus, Ohio, June 17, 2010.

**Vermilion BD.** Cigarette smoking and vascular disease. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, June 28, 2010.



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